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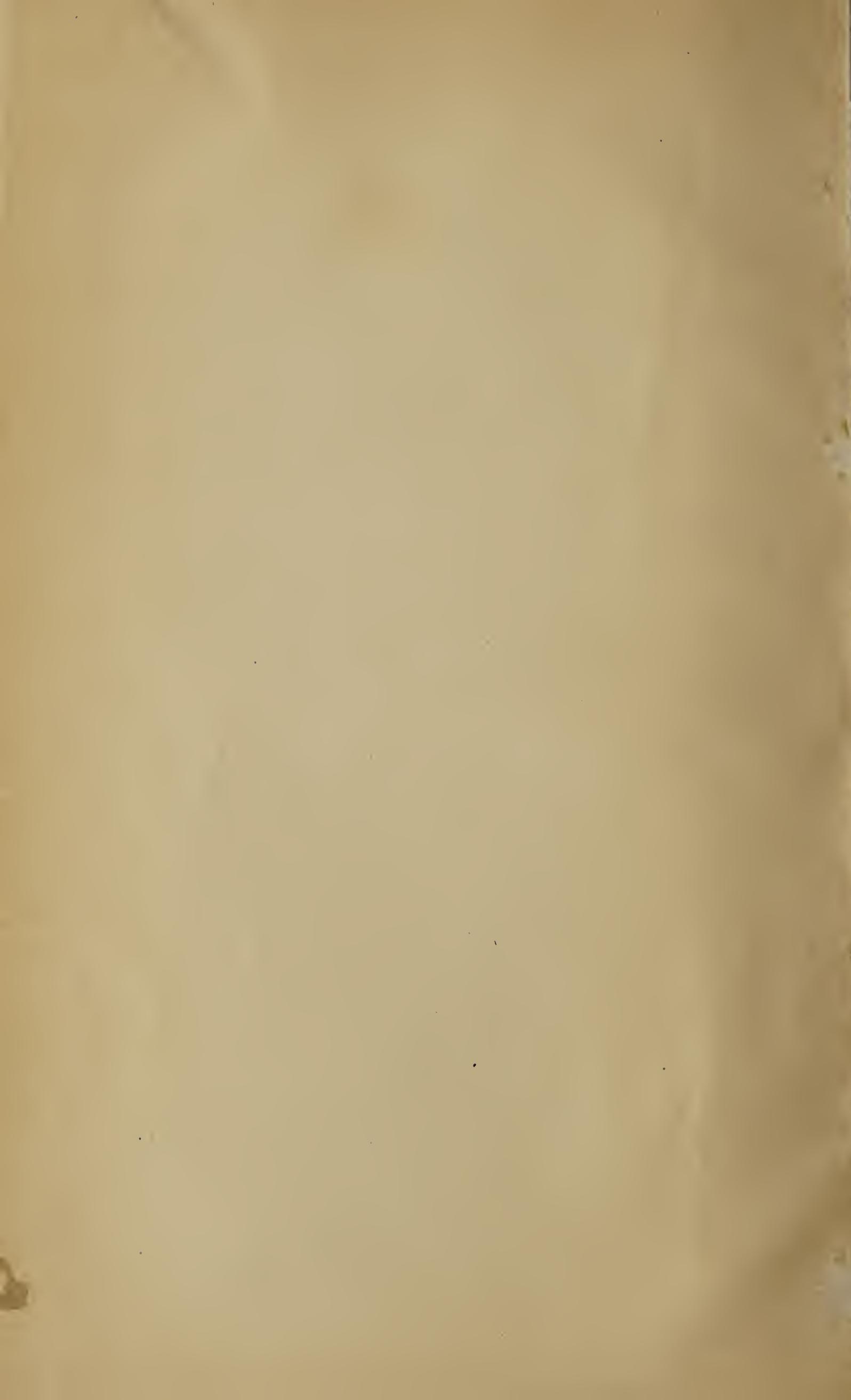
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OF

THE MORE IMPORTANT CONTRIBUTIONS

TO

AMERICAN ECONOMIC ENTOMOLOGY.

PART VIII.

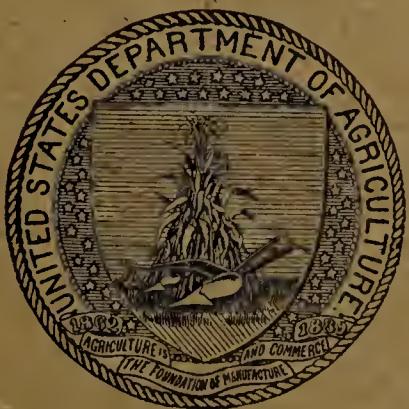
THE MORE IMPORTANT WRITINGS PUBLISHED BETWEEN
DECEMBER 31, 1899, AND JANUARY 1, 1905.

PREPARED UNDER THE DIRECTION OF THE ENTOMOLOGIST,

BY

NATHAN BANKS,

ASSISTANT ENTOMOLOGIST.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.

1905.

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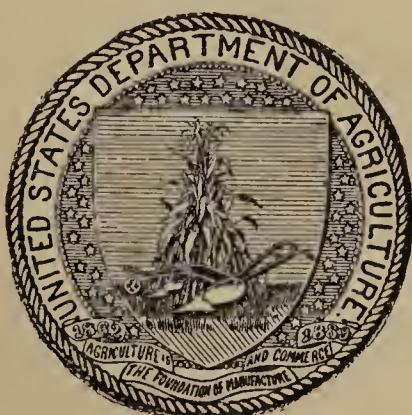
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WASHINGTON:
GOVERNMENT PRINTING OFFICE.

1905.

LETTER OF TRANSMITTAL.

U. S. DEPARTMENT OF AGRICULTURE,
BUREAU OF ENTOMOLOGY,
Washington, D. C., September 6, 1905.

SIR: I have the honor to transmit herewith, for publication, Part VIII of the Bibliography of the More Important Contributions to American Economic Entomology, bringing the more important writings down to the beginning of the calendar year, January 1, 1905. I recommend its publication in the same style as Part VII, which brought our bibliography to the end of the calendar year, December 31, 1899.

Respectfully,

L. O. HOWARD,
Entomologist and Chief of Bureau.

Hon. JAMES WILSON,
Secretary of Agriculture.

BIBLIOGRAPHY OF THE MORE IMPORTANT CONTRIBUTIONS TO AMERICAN ECONOMIC ENTOMOLOGY.

PART VIII.

1. A——, G. M. Killing mites on fowls. <Rural New Yorker, 15 December, 1900, p. 843.
2. AARON, S. F. The pantry moth. <Scient. Amer., 20 October, 1900, p. 250, 3 figs.
Notes on *Plodia interpunctella* Hübn.
3. AARON, S. F. The bean weevils. <Sci. Amer., 11 May, 1901, p. 298, 3 figs.
Notes on *Bruchus obtectus* Say and *B. 4-maculatus* Fab.
4. AGEE, A. The white grub. <Ohio Farmer, 29 November, 1900, p. 395.
Its great destructiveness.
5. ALDRICH, J. M. The codling moth. <Bull. No. 21, Idaho Agric. Exp., Station, February, 1900, pp. 99-112, 6 figs.
6. ALDRICH, J. M. Crude petroleum—preliminary report. <Bull. No. 26, Idaho Agric. Exp. Sta., February, 1901, pp. 15-20, 1 fig.
7. ALDRICH, J. M. The elm louse. <Bull. No. 26 Idaho Agric. Exp. Sta., February, 1901, pp. 20-22.
Notes on *Schizoneura americana* Riley.
8. ALDRICH, J. M. The pear-tree blister-mite. <Bull. No. 26 Idaho Agric. Exp. Sta., February, 1901, pp. 22-24.
9. ALDRICH, J. M. Report of the Department of Entomology. <Bull. No. 29, Idaho Agric. Exp. Station, June, 1901, pp. 16-17.
Notes on several insects.
10. ALDRICH, J. M. The codling moth. <Bull. No. 36, Idaho Agric. Exp. Station, 1903, pp. 137-155.
11. ALDRICH, J. M. The forest tree tent caterpillar (*Malacosoma fragilis*). <Nebraska Farmer, 14 April, 1904.
12. ALLEN, R. C. Scale killing on evergreen fruit trees. <Pacific Rural Press, 7 April, 1900.

13. ALLEN, R. C. The distillate emulsion as a spray for citrus fruit. <Pacific Rural Press, 26 April, 1902.
14. ALLEN, R. C. Fumigation or distillate spray. <Pacific Rural Press, 29 August, 1903.
15. ALWOOD, W. B. Third Report of the State Entomologist and Pathologist on the San Jose scale and the administration of the crop-pest law of Virginia. <Richmond, 1901, pp. 56, pls. 10.
16. ALWOOD, W. B. Fighting the apple-tree borer. <Farm, Field and Fireside, September, 1901.
17. ALWOOD, W. B. Report on the inspection of Roanoke County for the San Jose scale. <Special Bull. Virginia Agric. Exp. Sta., December, 1901, pp. 37, 1 map.
18. ALWOOD, W. B. What to do with locusts. <Rural New Yorker, 17 May, 1902, p. 351.
19. ALWOOD, W. B. Soap for San Jose scale. <Rural New Yorker, 8 November, 1902, p. 752.
20. ALWOOD, W. B. Remedial measures against San Jose scale. <Bull. No. 131, Virginia Agric. Exp. Station, December, 1901 (issued May, 1903), pp. 151-169, 1 fig.
21. ALWOOD, W. B. A note on the oviposition of the seventeen year locust (*Cicada septendecim* Linn.). <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 75-76.
22. ALWOOD, W. B. Pure kerosene for the scale. <Rural New Yorker, 10 October, 1903, p. 707.
23. ALWOOD, W. B. Spraying trees with kerosene. <Rural New Yorker, 21 November, 1903, p. 803.
24. ALWOOD, W. B. The lime sulphur wash. <Bull. No. 141, Va. Agric. Exp. Station, October, 1902 (January, 1904), pp. 215-236, 18 figs.
25. ALWOOD, W. B. Apple-tree borers. <Rural New Yorker, 18 June, 1904, p. 476.
26. ALWOOD, W. B. Circular in relation to some injurious insects and plant diseases. < Cir. No. 45, Va. State Crop Pest Commission, August, 1904, pp. 25, figs. 24.
27. ALWOOD, W. B. and J. L. PHILLIPS. The lime-sulphur wash. <Bull. 141, Va. Agric. Exp. Station, 1903, pp. 215-246, 17 figs.
28. ANON. The control of insect pests and tree and plant diseases. <Bull. No. 71, Calif. St. Board Hortic., pp. 32, 19 figs., 1900.
29. ANON. Insects as distributers of human disease. <Rept. Calif. State Bd. Hortic. f. 1901-2 (December, 1902), pp. 103-114, 5 figs.

30. ANON. Grasshoppers or locusts. <Rept. Calif. State Board Hortic. f. 1901-2, pp. 115-125, 3 figs.
31. ANON. Plant lice. <Rept. Calif. State Board Hortic. f. 1901-2 (December, 1902), pp. 126-137, 10 figs.
32. ANON. The army worm. <Rept. Calif. State Board Hortic. f. 1901-2 (December, 1902), pp. 138-146, 6 figs.
33. ANON. The canker worms. <Rept. Calif. State Board Hortic. f. 1901-2 (December, 1902), pp. 147-150, 3 figs.
34. ANON. The screw-worm fly. <Rept. Calif. State Board Hortic. f. 1901-2 (December, 1902), pp. 151-152, 1 fig.
35. ANON. Codling moth traps. <Rept. Calif. State Board Hortic. f. 1901-2 (December, 1902), pp. 154-156, 1 fig.
36. ANON. Visit to the gypsy moth district. <Mass. Ploughman, 1 August, 1903, 2 figs.
37. ANON. An imminent peril. The gypsy moth in Massachusetts. <Country Gentleman, 15 September, 1904, pp. 837-838, 2 figs.
38. ARNOLD, C. G. Notes on the peach and the borer. <American Gardening, 17 February, 1900.
39. ATTWATER, H. P. Boll weevils and birds. <Sugar Planters' Journal, 20 February, 1904.
40. ATWOOD, G. C. Foodplants of San Jose scale. <Country Gentleman, 1 November, 1900, p. 885.
41. ATWOOD, G. C. Fighting the San Jose scale. <Country Gentleman, 10 April, 1902, p. 308-309.
42. ATWOOD, G. C. Fumigating the San Jose scale. <Country Gentleman, 29 May, 1902, p. 453, 3 figs.
43. AUGUSTINE, E. F. Points on spraying. <Agric. Epitomist, January, 1900.
44. AVERY, S. The composition of arsenical insecticides. <Bull. No. 25, Idaho Agric. Exp. Sta., January, 1901, pp. 1-11.
45. AYERS, J. The chinch bug. <Agric. Epitomist, April, 1900.
46. B——, T. B. Birds or bugs. <Country Gentleman, 19 June, 1902, p. 517.
47. BAILEY, L. H., and others. Spraying notes. <Bull. No. 177, Cornell Univ. Agric. Exp. Station, January, 1900, pp. 238-253. Experience with San Jose scale.
48. BALKWILL, J. A. Report on insects of the year. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 41-42, 2 figs.
49. BALKWILL, J. A. Report on insects of the year. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 20-21.

50. BALL, E. D. A simple form of accessions catalogue. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 37-39.
51. BALL, E. D. The codling moth in Utah. <Bull. No. 87, Utah Agric. Exp. Station, March, 1904, pp. 105-145, 13 figs.
52. BALL, E. D. Department of entomology. <Ann. Rept. Utah Agric. Exp. Station f. 1903 (1904), pp. xxviii-xxxii.
53. BANKS, N. Cotton insects in Egypt. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 99-100.
54. BANKS, N. Principal insects liable to be distributed on nursery stock. <Bull. No. 34, n. s., Div. Entom., U. S. Dept. Agric., June, 1902, pp. 46, figs. 43.
Brief accounts of a number of species.
55. BANKS, N. A treatise on the Acarina, or mites. <Proc. U. S. Natl. Mus., XXVIII, pp. 1-114, September, 1904, figs. 201.
56. BANKS, N. The yellow fly of the Dismal swamp. <Entom. News, 1904, pp. 290-291.
57. BARDEN, J. J. Successful orchard fumigation. <Amer. Agric., 23 August, 1902.
58. BARRETT, O. W. The changa or mole cricket. <Bull. No. 2, Porto Rico Agric. Exp. Sta., December, 1902, pp. 19, 1 fig.
Account of *Scapteriscus didactylus* Latr.
59. BATES, J. W. An enemy of the rose. <Agric. Epitomist, January, 1900, 1 fig.
Treats of aphides.
60. BEACH, C. L., and A. B. CLARK. Protecting cows from flies. <Bull. No. 32, Storrs Agric. Exp. Station, Conn., December, 1904, pp. 14, 1 fig.
61. BEACH, S. A., V. A. CLARK, and O. M. TAYLOR. Spray mixtures and spray machinery. <Bull. No. 243, N. Y. State Agric. Exp. Station, December, 1903, pp. 317-373, pls. 9-15.
62. BEATTIE, W. R. The use of hydrocyanic-acid gas for exterminating household insects. <Bull. No. 31, n. s., Div. Ent., U. S. Dept. Agric., January, 1902, pp. 80-84.
63. BENNETT, A. E. Fumigation for scale insects. <Pacific Rural Press, 20 September, 1902, p. 180.
64. BENTLEY, E. M., and others. Mosquito extermination in practice. <Lawrence, L. I., Board of Health, 1903, pp. 42, 1 fig.
65. BETHUNE, C. J. S. Fatal bite of an insect. <Thirtieth Ann. Rept. Ent. Soc. Ontario f. 1899 (1900), pp. 73-74, 1 fig.
Boy pricked by *Sinea diadema* Fab.
66. BETHUNE, C. J. S. Notes on the season of 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 100-102.

67. BETHUNE, C. J. S. Winter work against orchard insects. <Farmer's Advocate, 1 March, 1900, p. 132.
68. BETHUNE, C. J. S. Winter work against vineyard insects. <Farmer's Advocate, 15 March, 1900, pp. 161-162.
69. BETHUNE, C. J. S. Some useful beetles. <Farmer's Advocate, 1 May, 1900, p. 266.
70. BETHUNE, C. J. S. A menace to the shade trees of London, Ont. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 40-42, 2 figs.
71. BEUTENMÜLLER, W. Synopsis of food habits of the larvæ of the Sesiidæ. <Can. Entom., October, 1900, p. 301-303.
72. BEYER, G. E. The mosquitoes and their relation to disease. <New Orleans Med. and Surgical Journal, September, 1901, pp. 131-155, 24 figs.
73. BEYER, G. E., and others. Bionomics, experimental investigations with *Bacillus sanarelli*, and experimental investigations with malaria in connection with the mosquitoes of New Orleans. <Rept. Mosquito Commiss. Orleans Parish Med. Soc., pp. 78, 38 figs., 1902.
74. BIOLETTI, F. T. Phylloxera of the vine. <Bull. No. 131, Calif. Agric. Exp. Station, May, 1901, pp. 16, 2 figs.
75. BIOLETTI, F. T., and E. H. TWIGHT. Erinose of the vine. <Bull. No. 136, Calif. Agric. Exp. Sta., November, 1901, pp. 7, 4 figs.
76. BLAIR, W. S. Treatment for oyster-shell bark-louse. <Rept. Expt. Farms, Canada f. 1901, pp. 379-380.
Use of lime and water.
77. BLANCHARD, H. J. Some remarks about distillate emulsions. <Los Angeles Fruit World, 21 September, 1901.
78. BLATCHLEY, W. S. A ham devoured by insects. <Indiana Farmer, 9 June, 1900.
Notes on *Necrobia rufipes* Fab., *N. violaceus* Linn., and *Piophila casei* Linn.
79. BOGUE, E. E. Insects affecting the grape. <Rept. Oklahoma Agric. Exp. Sta. f. 1899-1900 (1900), pp. 108-112, 4 figs.
80. BOLCE, H. The trap-lantern as an insect exterminator. <Sci. American, 29 August, 1903, p. 147.
81. BOOTH, N. O. A test of spray nozzles. <Bull. No. 50, Missouri Agric. Exp. Sta., April, 1900, pp. 87-115, 10 figs.
82. BOOTH, N. O. Spray calendar. <Circular of Inform. No. 10, Missouri Agric. Exp. Station, 1903, pp. 13.
83. BOWERS, J. L. Treatment of the crown borer of the peach. <Pacific Rural Press, 21 June, 1904.

84. BREMNER, O. E. A new peach borer. <Calif. Fruit Grower, 20 August, 1904.
Damage by *Xyleborus xylographus* Say.
85. BREWER, C. H. More about the San Jose scale. <American Agriculturist, 9 May, 1903, p. 522.
86. BREWER, C. H. Combating the scale successfully. <American Agriculturist, 31 October, 1903, p. 351.
87. BRIDWELL, J. C. Additional observations on the tobacco stalk weevil. <Bull. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 44-46.
88. BRITCHER, H. W. The chinch bug in Maine. <Bull. No. 91, Maine Agric. Exp. Station, pp. 41-52, figs. 2, 1903.
89. BRITTON, W. E. The San José scale. <Rept. Bd. Agric. Conn. f. 1899 (1900), pp. 253-259.
90. BRITTON, W. E. Experience with hydrocyanic acid gas in barn and greenhouse. <Rept. Conn. Agric. Exp. Sta. f. 1900 (1901), pp. 311-312.
91. BRITTON, W. E. On the banding of trees to prevent injury by the fall canker-worm. <Rept. Conn. Agric. Exp. Sta. f. 1900 (1901), pp. 312-314.
92. BRITTON, W. E. Miscellaneous notes on insects and insecticides. <Rept. Conn. Agric. Exp. Sta. f. 1900 (1901), pp. 314-322.
93. BRITTON, W. E. The new law concerning insect pests. <Bull. No. 134, Conn. Agric. Exp. Sta., August, 1901, pp. 6.
94. BRITTON, W. E. The San José scale-insect; its appearance and spread in Connecticut. <Bull. No. 135, Conn. Agric. Exp. Sta., December, 1901, pp. 14, 5 pls.
95. BRITTON, W. E. Preliminary experiments in spraying to kill the San José scale-insect, season of 1901. <Bull. No. 136, Conn. Agric. Exp. Sta., February, 1902, pp. 12, pl. I.
96. BRITTON, W. E. First Report of the State Entomologist. <Rept. Conn. Agric. Exp. Station f. 1901 (1902), pp. 227-278, 2 figs.; 11 pls.
97. BRITTON, W. E. The apple-tree tent-caterpillar. <Bull. 139, Conn. Agric. Exp. Station, July, 1902, pp. 10, 3 figs., 3 pls. Treats of *Clisiocampa americana* Fab.
98. BRITTON, W. E. The white-fly or plant-house Aleyrodes. <Bull. No. 140, Conn. Agric. Exp. Sta., September, 1902, pp. 17, 5 figs., 4 plates.
Full account of *Aleyrodes vaporariorum* Westw.
99. BRITTON, W. E. Mosquitoes and malaria. <Rept. Conn. State Board Agric. f. 1902 (1903), pp. 245-252.

100. BRITTON, W. E. Second Report of the State Entomologist. <Rept. Conn. Agric. Exp. Station f. 1902, pt. II, March, 1903, pp. 99-178, 15 pls., 19 figs.
101. BRITTON, W. E. Two common scale-insects of the orchard. <Bull. No. 143, Conn. Agric. Exp. Station, May, 1903, 10 pp., 2 pls., 5 figs.
102. BRITTON, W. E. Twelve-spotted asparagus beetle in Connecticut. <Can. Entom., 1903, p. 188.
103. BRITTON, W. E. The lime, sulphur, and salt mixture in Connecticut. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 38-39.
104. BRITTON, W. E. Fighting the San Jose scale-insect in 1903. <Bull. No. 144, Conn. Agric. Exp. Station, October, 1903, pp. 25, 3 pls.
105. BRITTON, W. E. Third Report of the State Entomologist. <Rept. Conn. Agric. Exp. Station f. 1903, pp. 199-286, 8 pls., 15 figs.
106. BRITTON, W. E. Insect notes from Connecticut. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 105-107.
107. BRITTON, W. E. Spraying for San Jose scale. <Rural New Yorker, 5 March, 1904, p. 174.
108. BRITTON, W. E. Killing the scale on young trees. <Rural New Yorker, 12 November, 1904, p. 811.
109. BRITTON, W. E., and G. P. CLINTON. Spray calendar. <Bull. No. 142, Conn. Agric. Exp. Station, 1903, pp. 19, 4 figs.
110. BRITTON, W. E., and B. H. WALDEN. San Jose scale-insect experiments in 1904. <Bull. No. 146, Conn. Agric. Exp. Station, October, 1904, pp. 32, 4 pls.
111. BRODIE, D. A. Potato blight and its treatment. <Bull. No. 46, Wash. Agric. Exp. Sta., March, 1901, pp. 1-16.
Notes on ravages of a cutworm—*Peridroma saucia* Hübn.
112. BROOKS, F. E. The grape curculio. <Rural New Yorker, 23 August, 1902, p. 574.
113. BROWN, A. N. Experience with limoid and kerosene. <Rural New Yorker, 26 November, 1904, p. 843.
114. BROWN, C. E. Depredations of the cottony maple scale. <Bull. Wisconsin Nat. Hist. Soc., n. s., vol. I, No. 1, January, 1900.
115. BROWN, F. E. The bees and pear blight. <Pacific Rural Press, 22 November, 1902, p. 325.
116. BRUNER, L. Report of the entomologist. <Ann. Rept. Nebraska State Board of Agriculture, 1899 (1900), pp. 103-141, 16 pls.
Treats of grass insects.

117. BRUNER, L. Chinch bug inoculation. <Nebraska Farmer, 19 July, 1900.
118. BRUNER, L. How to kill grasshoppers. <Nebraska Farmer, 1900, p. 475, 5 figs.
119. BRUNER, L. Corn root insects. <Nebraska Farmer, No. 1, February 14, 1901, 3 figs.
120. BRUNER, L. Locusts or grasshoppers. <Bull. No. 70, Nebraska Agric. Exp. Sta., March, 1901, pp. 43-54, 13 figs.
121. BRUNER, L. The Cecropia silk worm. <Nebraska Farmer, 1901, p. 263, 5 figs.
122. BRUNER, L. Destructive grasshoppers. <Nebraska Farmer, 1901, p. 381, 8 figs.
123. BRUNER, L. The chinch bug. <Nebraska Farmer, 1901, p. 441, 1 fig.
124. BRUNER, L. The Haseltine insect trap. <Nebraska Farmer, 23 May, 1901, p. 551.
125. BRUNER, L. Something about cutworms. <Nebraska Farmer, 23 May, 1901, p. 551, 5 figs.
126. BRUNER, L. Aphides or plant-lice. <Nebraska Farmer, 1901, pp. 651 and 657, 6 figs.
127. BRUNER, L. Strawberry insects. <Trans. Nebr. State Hortic. Soc., 1901, pp. 49-100, 32 figs.
A descriptive list.
128. BRUNER, L. A new insect enemy. <Nebraska Farmer, 11 July, 1901.
Note on *Labops hesperius* Uhl.
129. BRUNER, L. Friend or foe. <Nebraska Farmer, 15 August, 1901, 5 figs.
Notes on blister beetles.
130. BRUNER, L. The box-elder bug. <Nebraska Farmer, 1901, p. 1011, 1 fig.
131. BRUNER, L. The fruit-tree bark-beetle; *Scolytus rugulosus* Ratz. <Nebraska Farmer, 1901, p. 1091, 2 figs.
132. BRUNER, L. The utility of birds. <Nebr. Farmer, 24 July, 1902, p. 731.
133. BRUNER, L. Grasshopper notes for 1901. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 39-49.
134. BRUNER, L. Killing destructive locusts with fungous diseases. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 50-61.
135. BRUNER, L. Insect enemies of the apple-tree and its fruit. <Trans. Amer. Apple-Growers Cong. f. 1902, pp. 100-106.

136. BRUNER, L. The Hessian fly, its natural history and common enemies. <Nebraska Farmer, 22 December, 1904.
137. BRUNER, L., and W. D. HUNTER. Insect enemies of the stone fruits. <Ann. Rept. Nebr. State Hortic. Soc. f. 1900 (1901), pp. 51-116, 71 figs.
A list and descriptive notes on many species.
138. BRYANT, L. R. The dust-spraying method. <Rural New Yorker, 12 April, 1902, p. 266.
139. BUDD, J. L. Apple tree borer. <Wallace's Farmer, 5 April, 1901, p. 495.
140. BUES, C. The cottony maple scale. <Wisc. Agric., 1904, 18 August, p. 10.
141. BURGESS, A. F. Notes on the lime, sulphur and salt and resin washes in Ohio. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 33-35.
142. BURGESS, A. F. Report of the chief inspector of nurseries and orchards. <Ohio Agric. Rept. f. 1902 (1903), pp. 735-749, 5 figs.
143. BURGESS, A. F. Economic notes on the family Coccinellidæ. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 25-29.
144. BURGESS, A. F. Notes on the introduction of the Asiatic ladybird (*Chilocorus similis* Rossi) in Ohio. <Ohio Naturalist, January, 1904, pp. 49-50.
145. BURGESS, A. F. Treatment of the San Jose scale in cities. <Bull. No. 1, Ohio Dept. Agric., March, 1904, pp. 8, 1 pl., 1 fig.
146. BURGESS, A. F. Canker worms in Ohio. <Bull. No. 2, Ohio Dept. Agric., March, 1904, pp. 13, 6 figs.
147. BURGESS, A. F. Report of the chief inspector. <Ohio Dept. Agric., March, 1904, pp. 30, 1 fig., 5 maps.
148. BURGESS, A. F. The use of arsenate of lead for controlling the codling moth. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 14-20.
149. BURGESS, A. F. Notes on the treatment of nursery buds. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 34-39.
150. BURGESS, A. F. Notes on economic insects for the year 1903. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 62-65.
- 150a. BURGESS, A. F. On uniform methods of treating nursery stock. <Proc. 17 Ann. Conv. Amer. Agric. Coll. and Exp. Stations; Bull. No. 142, Off. Exp. Sta., Dept. Agric., 1904, pp. 189-192.

151. BURNS, C. E. The peach root borer. <Pacific Rural Press, 17 February, 1900.
152. BURRAGE, S. Insects as factors in the spread of bacterial disease. <Proc. Indiana Acad. Sci. f. 1898 (1900), pp. 68-75.
153. BUSCK, A. Notes on a brief trip to Puerto Rico in January and February, 1899. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 88-93.
154. BUSCK, A. Report of an investigation of diseased cocoanut palms in Cuba. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 20-23.
155. BUSCK, A. Notes on enemies of mushrooms and on experiments with remedies. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 32-35.
156. BUTLER, T. The cattle-tick and its relation to the cattle industry of North Carolina. <Bull. No. 5, vol. 24, North Carolina Board Agric., May, 1903, pp. 28, 2 maps.
157. BUTZ, G. C. The use of hydrocyanic acid gas in green-houses. <Penna. Station Coll. Rept., 1900-1901, pp. 391-395.
158. CARD, F. W. San Jose in Rhode Island. <Country Gentleman, 11 October, 1900, p. 829.
159. CARD, F. W. How to handle the scale. <Rural New Yorker, 3 December, 1904, p. 859.
160. CARY, C. A. Texas or acclimation fever. <Bull. No. 116, Alabama Agric. Exp. Sta., September, 1901, pp. 231-289. Experiments in producing immunity by inoculation.
161. CARY, L. R. The grass Thrips. <Bull. No. 83, Maine Agric. Exp. Station, June, 1902, pp. 97-128, 15 figs. Account of *Anaphothrips striata*, Osb.
162. CAUDELL, A. N. Notes on Colorado insects. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 35-38.
163. CAUDELL, A. N. Injury by a cricket in the south. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 88-89.
164. CAULKINS, A. S. Bees and fruit. <Trans. Iowa Hort. Soc. f. 1903 (1904), pp. 292-293.
165. CHAMBERLAIN, J. A new insect pest. <Sci. Amer., 20 January, 1900, p. 42. Note on *Agrilus anxius* Gory.
166. CHAMBERLAIN, J. Exterminating the mosquito. <Sci. Amer., September 7, 1901, p. 147.
167. CHAMBERS, S. W. The winter borers. <Wisconsin Agriculturist, 26 December, 1901, p. 8.

168. CHAPAIIS, J. C. The strawberry sawfly: the gooseberry fruit worm. <Le Naturaliste Canadien, February, 1900, pp. 17-20.
169. CHAPPELON, W. The caprification of the fig. <California Cultivator, 13 April, 1900, p. 213.
170. CHITTENDEN, F. H. The bronze apple-tree weevil (*Magdalis ænescens* Lec.). <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 37-44, 2 figs.
171. CHITTENDEN, F. H. Insects and the weather: observations during the season of 1899. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 51-64.
172. CHITTENDEN, F. H. Food plants and injury of North American species of *Agrilus*. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 64-68.
173. CHITTENDEN, F. H. On the recent spread of the Mediterranean flour moth. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 97-98.
174. CHITTENDEN, F. H. Note on two species of "lightning hoppers." <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 98-99.
175. CHITTENDEN, F. H. Biologic observations on *Harpalus pennsylvanicus* De Geer. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 100-102.
176. CHITTENDEN, F. H. A note on the cocklebur bill-bug. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 104-105.
177. CHITTENDEN, F. H. A new vine-borer of lima beans (*Monoptilota nubilella* Hulst.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 9-17, 1 fig.
178. CHITTENDEN, F. H. The smaller corn stalk-borer (*Elasmopalpus lignosellus* Zell.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 17-22, 3 figs.
179. CHITTENDEN, F. H. The pale-striped flea-beetle (*Systema blanda* Melsh.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 22-29, 2 figs.
180. CHITTENDEN, F. H. Observations on the bean leaf-beetle (*Cerotoma trifurcata* Först.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 30-31.
181. CHITTENDEN, F. H. Notes on the imbricated snout-beetle (*Epicærus imbricatus* Say). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 31-32, 1 fig.

182. CHITTENDEN, F. H. A new Tingitid on bean (*Gargaphia angulata* Heid.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 32-33, 1 fig.
183. CHITTENDEN, F. H. The destructive green pea louse (*Nectaro-phora destructor* Johns.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 33-37, 1 fig.
184. CHITTENDEN, F. H. A note on the Mexican bean weevil (*Spermophagus pectoralis* Sharp). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 37-38, 1 fig.
185. CHITTENDEN, F. H. The cabbage Curculio (*Ceutorhynchus rapæ* Gyll.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 39-50, 2 figs.
186. CHITTENDEN, F. H. Remarks on the food habits of species of *Ceutorhynchus*. <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 50-53.
187. CHITTENDEN, F. H. Additional notes on the imported cabbage web-worm (*Hellula undalis* Fab.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 53-61, 1 fig.
188. CHITTENDEN, F. H. The common rhubarb Curculio (*Lixus concavus* Say). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 61-70, 3 figs.
189. CHITTENDEN, F. H. The strawberry flea-beetle (*Haltica ignita* Ill.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 70-78, 2 figs.
190. CHITTENDEN, F. H. The fall army worm in 1899 (*Laphygma frugiperda* S. and A.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 78-84, 1 fig.
191. CHITTENDEN, F. H. The strawberry crown-moth (*Sesia rutilans* Hy. Edw.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 85-90, 1 fig.
192. CHITTENDEN, F. H. The black gooseberry borer (*Xylocrius agassizii* Lec.). <Bull. No. 23, n. s., Div. Ent., U. S. Dept. Agric., April, 1900, pp. 90-92, 3 figs.
193. CHITTENDEN, F. H. Remedies for insect pests in vegetable and flower gardens and conservatories. <Philad., January, 1901, 4 pp., 4 figs.
194. CHITTENDEN, F. H. Some insects injurious to the violet, rose, and other ornamental plants. <Bull. No. 27, n. s., Div. Entom., U. S. Dept. Agric., June, 1901, pp. 114, 4 pls., 29 figs.
195. CHITTENDEN, F. H. The fall army worm and the variegated cut-worm. <Bull. No. 29, n. s., Div. Entom., U. S. Dept. Agric., October, 1901, pp. 1-64, 10 figs.

196. CHITTENDEN, F. H. The green clover worm. <Bull. No. 30, n. s., Div. Entom., U. S. Dept. Agric., October, 1901, pp. 45-50, 1 fig.
197. CHITTENDEN, F. H. Insects and the weather during the season of 1900. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 63-75.
198. CHITTENDEN, F. H. Injurious moths attracted to lights in autumn. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 85-86.
199. CHITTENDEN, F. H. Injury to rustic cedar fences and summer-houses by borers. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 91-92.
200. CHITTENDEN, F. H. Thrips injurious in greenhouses. <Weekly Florists' Review, 17 April, 1902, pp. 738-740, 2 figs.
201. CHITTENDEN, F. H. The palm and palmetto weevils. <Bull. No. 38, n. s., Div. Ent., U. S. Dept. Agric., November, 1902, pp. 23-28, 1 fig.
202. CHITTENDEN, F. H. Notes on the Rhinoceros beetle. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 28-32, 1 pl., 1 fig.
203. CHITTENDEN, F. H. The tobacco stalk weevil. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 66-70.
204. CHITTENDEN, F. H. The leaf-mining locust beetle, with notes on related species. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 70-89, 3 figs.
205. CHITTENDEN, F. H. Estimated loss occasioned by the variegated cutworm in 1900. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 91-92.
206. CHITTENDEN, F. H. Injurious occurrences of an exotic Dermestid in the United States. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 96-97.
207. CHITTENDEN, F. H. Some blister beetles injurious to fruit trees. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 97-99, 1 fig.
208. CHITTENDEN, F. H. Notes on vine-chafers. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 99-100, 1 fig.
209. CHITTENDEN, F. H. The ant and the plant louse. <Prairie Farmer, 1 January, 1903.
210. CHITTENDEN, F. H. The principal injurious insects in 1902. <Yearbook, Dept. Agric. f. 1902, pp. 726-733 (1903).

211. CHITTENDEN, F. H. Notes on the larger sugar-beet leaf-beetle. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 111-113, 1 fig.
212. CHITTENDEN, F. H. Some insects recently injurious to truck crops. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 113-120, 3 figs.
213. CHITTENDEN, F. H. The principal insect enemies of the sugar beet. <Rept. No. 74, U. S. Dept. Agric., September, 1903, pp. 157-221, 65 figs.
214. CHITTENDEN, F. H. A brief account of the principal insect enemies of the sugar beet. <Bull. No. 43, Div. Entom., U. S. Dept. Agric., December, 1903, pp. 71, 65 figs.
215. CHITTENDEN, F. H. The principal injurious insects of 1903. <Yearbook, Dept. Agric. f. 1903 (1904), pp. 563-566.
216. CHITTENDEN, F. H. Combating the strawberry root louse. <American Agriculturist, 12 March, 1904, p. 311.
217. CHITTENDEN, F. H. The chestnut weevils, with notes on other nut-feeding species. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904 pp. 24-39, 8 figs.
218. CHITTENDEN, F. H. The cowpea-pod weevil. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 39-43, 4 figs.
219. CHITTENDEN, F. H. The cherry fruit fly. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 70-75, 2 figs.
220. CHITTENDEN, F. H. Observations on the habits of the morning-glory leaf-cutter. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 95-96.
221. CHITTENDEN, F. H. New habits of the cucumber flea-beetle. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 96.
222. CHITTENDEN, F. H. Insects injurious to the sugar beet. <Proc. First Ann. Conv. Amer. Beet Sugar Assn., Washington, 1904, pp. 96-105, 3 pls.
223. CHITTENDEN, F. H. Insects injurious to the basket willow. <Bull. No. 46, Bur. Forestry, Dept. Agric., October, 1904, pp. 63-80, 17 figs.
224. CHITTENDEN, F. H. Lice on trunks of trees. <American Agriculturist, November 5, 1904, p. 402.
225. CLARKE, C. The English elm-leaf-beetles—How to destroy them. <Amer. Gardening, 17 August, 1901, p. 568.
226. CLARKE, W. T. The California vine-hopper. <Rept. Calif. Agric. Exp. Station f. 1897-98 (1900), pp. 179-181.
An abstract of Bulletin 116, on *Typhlocyba comes* Say.

227. CLARKE, W. T. The potato-worm in California. <Bull. No. 135, Calif. Agric. Exp. Sta., October, 1901, pp. 30, 10 figs.
Treats of *Gelechia operculella* Zell.; also of *Epitrix hirtipennis* Mels, and *Stenopelmatus* sp.
228. CLARKE, W. T. The peach worm. <Bull. No. 144, Calif. Agric. Exp. Station, September, 1902, pp. 44, 20 figs.
Treats of *Anarsia lineatella* Zell.
229. CLARKE, W. T. The lime, sulphur, and salt wash. <Pacific Rural Press, 7 March, 1903.
230. CLARKE, W. T. The black peach aphid in California. <Pacific Rural Press, 13 June, 1903; 20 June, 1903.
231. CLARKE, W. T. Spraying operations for the codlin moth in the Pajaro Valley. <Pacific Rural Press, 26 December, 1903, pp. 404-405.
232. CLARKE, W. T. Aphids attacking the apple. <Pacific Rural Press, 17 December, 1904, p. 388.
233. CLINTON, L. A. The Hessian fly epidemic. <Country Gentleman, 8 November, 1900, p. 909.
234. CLOSE, C. P. Plant diseases and insect pests. <Bull. No. 65, Utah Agric. Exp. Station, February, 1900, pp. 39-95, 6 pls., 5 figs.
235. COBURN, W. S. My treatment and success with codling moth. <Ann. Rept. Colorado State Board Hortic. f. 1901 (1902), pp. 78-82.
236. COCKERELL, T. D. A. The cottonwood web-worm (*Hyphantria*). <Press Bull. No. 35, New Mexico Agric. Exp. Sta., May, 1900, 1 p.
237. COCKERELL, T. D. A. Economic entomology in Arizona. <Science-Gossip, May, 1900, pp. 366-367.
Notes on *Aleurodes mori* Quaint., *Dicraneura cockerelli* Gill., *Typhlocyba rulnnerata* (Fitch), *Lecanium robiniarum* (Dougl.), and *Melanoplus olivaceus* Scudd.
238. COCKERELL, T. D. A. The danger of introducing insects on trees. <Bull. No. 34, Ariz. Agric. Exp. Sta., June, 1900, pp. 82-84.
239. COCKERELL, T. D. A. Winter remedies for injurious insects. <Bull. No. 34, Ariz. Agric. Exp. Sta., June, 1900, pp. 87-88.
240. COCKERELL, T. D. A. Observations on insects. <Bull. No. 35, New Mexico Agric. Exp. Sta., October, 1900, pp. 27, 10 figs.
Notes on a number of species.
241. COCKERELL, T. D. A. Notes on the food of birds. <Bull. No. 37, New Mexico Agric. Exp. Sta., March, 1901, pp. 35-51.
Notes on insect food of various birds.

242. COCKERELL, T. D. A. A new plant-louse injuring strawberry plants in Arizona. <Can. Entom., April, 1901, p. 101. Description and notes on *Myzus fragæfolii* nov. sp.
243. COCKERELL, T. D. A. Plant-lice. <Bull. No. 38, Arizona Agric. Exp. Station, July, 1901, pp. 262-267. Notes on *Schizoneura lanigera* Hausm., *S. americana* Riley, and *Myzus fragæfolii* Ckll.
244. COCKERELL, T. D. A. The blackberry crown-borer in New Mexico. <Entom. News, April, 1902, pp. 100-101.
245. COCKERELL, T. D. A. Notes from New Mexico and Arizona. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 107-109.
246. COENEN, J. Sow bugs. <Western Florists' Review, 12 December, 1901.
247. COLBY, G. E. Arsenical insecticides. <Bull. No. 151, Calif. Agric. Exp. Station, 1903, pp. 38, 10 figs.
248. COLE, M. O. Investigating the codling moth. <Rept. Missouri Hortic. Soc., 1902, pp. 318-320.
249. COMEAUX, R. G. The cane borer. <Louisiana Planter, 12 January, 1901, p. 29-30.
250. CONNER, S. A. *Vanessa cardui* Linn. <Rural Californian, May, 1903.
251. CONRADI, A. F. Remedies for fleas. <Bull. No. 94, N. H. Agric. Exp. Station, October, 1902, pp. 89-92. Advocates use of creolin for fleas.
252. COOK, A. J. Fullers' rose beetle. <Calif. Cultivator, 11 January, 1900, pp. 19-20.
253. COOK, A. J. Fumigation vs. spraying. <California Cultivator, 9 March, 1900, p. 147-148.
254. COOK, A. J. Insects of the orchard. <Rural Californian, March, 1900.
255. COOK, A. J. The gray and red mites. <California Cultivator, 18 May, 1900, p. 312.
256. COOK, A. J. Thrips. <Pacific Rural Press, 9 May, 1903, p. 293.
257. COOK, J. O. Crude oil for the peach borer. <Pacific Rural Press, 5 March, 1904.
258. COOK, O. F. An enemy of the cotton-boll weevil. <Rept. No. 78, U. S. Dept. Agric., pp. 7, 1904.
259. COOK, O. F. Report on the habits of the Kelep or Guatemalan cotton-boll-weevil ant. <Bull. No. 49, Bur. Entom. U. S. Dept. Agric., August, 1904, pp. 15.

260. COOK, O. F. Prof. William Morton Wheeler on the Kelep. <Science, 4 November, 1904, pp. 611-612.
261. COOK, O. F. Evolution of weevil-resistance in cotton. <Science, 18 November, 1904, pp. 666-670.
262. COOLEY, R. A. Injurious fruit insects. <Bull. No. 23, Montana Agric. Exp. Station, May, 1900 (February, 1901), pp. 64-114. Treats of a number of insects.
263. COOLEY, R. A. Entomological Department. <Eighth Annual Rept. Mont. Agric. Exp. Station, 1902, pp. 45-49.
264. COOLEY, R. A. The codling moth. <Bull. No. 42, Mont. Agric. Exp. Station, February, 1903, pp. 18.
265. COOLEY, R. A. Two insect pests. <Bull. No. 46, Montana Agric. Exp. Station, 1903, pp. 107-118, 2 figs. Notes on *Rhynchites bicolor* Fab., and *Pontania bozemani* Cooley.
266. COOLEY, R. A. Entomological Department. <Tenth Ann. Rept. Mont. Agric. Exp. Station f. 1903 (1904), pp. 38-52.
267. COOLEY, R. A. First Annual Report of the State Entomologist of Montana. <Bull. No. 51, Mont. Agric. Exp. Station, January, 1904, pp. 199-274, 8 pls., 18 figs.
268. COOLEY, R. A. Notes on a grasshopper outbreak in Montana. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 41-43.
269. COQUILLETT, D. W. Two new Cecidomyians destructive to buds of roses. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 44-48, 1 fig.
270. COQUILLETT, D. W. A new violet pest. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 48-51, 1 fig.
271. CORBETT, L. C. Fruit diseases and how to treat them. <Bull. No. 66, W. Va. Agric. Exp. Sta., February, 1900, pp. 199-235, 23 figs. Contains a spraying calendar and directions for preparation and use of insecticides.
272. CORBETT, L. C. Spraying, results of the season of 1900. <Bull. No. 70, W. Va. Agric. Exp. Station, November, 1900, pp. 354-382, 17 figs.
273. CORDLEY, A. B. The genuine horn fly in Oregon. <Oreg. Agric. and Rural Northwest, 15 September, 1900, p. 9.
274. CORDLEY, A. B. The Haseltine moth catcher. <Oreg. Agric. and Rural Northwest, 15 May, 1901, p. 258.
275. CORDLEY, A. B. The codling moth and late spraying in Oregon. <Bull. No. 69, Oreg. Agric. Exp. Station, February, 1902, pp. 121-160, 4 pls.

276. CORDLEY, A. B. Insecticides and fungicides. <Bull. No. 75, Oregon Agric. Exp. Station, March, 1903, pp. 23-35.
277. COTLIN, W. L. Insects as carriers of disease. <Monthly Bulletin, Division of Zoology, Vol. II, No. 4, Penna. Dept. Agric., August, 1904, pp. 112-113.
278. COWDIN, J. P. A woolly aphis remedy. <Colman's Rural World, 30 January, 1901, p. 35.
Use of tobacco dust.
279. COX, D. G. Notes on insects of the year 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 39-40.
280. CRAIG, J. Dust or powder sprays. <Proc. West. N. Y. Hort. Soc. f. 1904 (1904), pp. 29-35.
281. CRANEFIELD, F. Plum insects and diseases. <Wisc. Agric., 9 January, 1902, p. 10.
282. CRANEFIELD, F. Apple aphis. <Wisc. Agriculturist, 21 July, 1902, p. 11.
283. CRANEFIELD, F. Woolly apple louse. <Wisc. Agriculturist, 11 September, 1902, p. 10.
284. CRANEFIELD, F. Fighting the squash bug. <Wisconsin Agriculturist, 4 June, 1903, p. 10.
285. CRANEFIELD, F. A cherry tree pest. <Wisconsin Agriculturist, 20 August, 1903, p. 11.
286. CRAW, A. Pests stopped at the threshold. <Pacific Rural Press, 13 January, 1900, pp. 21-22.
287. CRAW, A. Insects of the orchard. <California Cultivator, 1 February, 1900, pp. 72-73.
Notes on *Tetranychus sex-maculatus* Riley, *Bryobia*, *Phytoptus pyri* Scheut., *P. vitis* Land., and *P. oleivorus* Ashm.
288. CRAW, A. Insects of the orchard. <Rural Californian, March, 1900, pp. 97-98.
289. CRAW, A. Prevention of pests and introduction of blessings. <Pacific Rural Press, 11 August, 1900, pp. 85-86.
290. CRAW, A. Quarantine officer's report. <Calif. Fruit Grower, 8 June, 1901, pp. 3-4. <Pacific Rural Press, 8 June, 1901.
291. CRAW, A. A half year with good and bad insects. <Pacific Rural Press, 28 December, 1901, p. 408.
292. CRAW, A. Fight against insect pests. <California Fruit Grower, 11 January, 1902, pp. 3-4.
293. CRAW, A. South African black-scale parasite. <Rept. Calif. State Bd. Hortic. f. 1901-2 (December, 1902), pp. 91-92, 1 fig.
294. CRAW, A. Horticultural quarantine reports. <Rept. Calif. State Bd. Hortic. f. 1901-2 (December, 1902), pp. 187-204.

295. CRAW, A. Parasitic and predaceous insects in the orchard. <Pacific Rural Press, 13 December, 1902. <Calif. Fruit Grower, 17 January, 1903.
296. CRAW, A. Fruit flies, and their exclusion. <Calif. Fruit Grower, 18 July, 1903.
297. CRAW, A. Horticultural quarantine. <Pacific Rural Press, 8 August, 1903, p. 84.
298. CRAW, A. Report of the condition of black-scale parasite. <Pacific Rural Press, 19 September, 1903.
299. CREELY, N. P. Spraying success for scale. <American Agriculturist, 9 August, 1902, p. 128.
300. CROWLEY, J. H. The codling moth. <Ann. Rept. Colorado State Board Hortic. f. 1901 (1902), pp. 30-39, 2 figs.
301. CURTICE, C. Cattle tick the carrier of splenic fever. <Rept. Commis. Agric. North Carolina f. 1900 (1901), pp. 68-71, 1 col. pl.
302. CURTICE, C. How to kill ticks. <Rept. Commis. Agric. North Carolina f. 1900 (1901), pp. 191-193.
303. CURTISS, C. F., H. C. PRICE, and H. E. SUMMERS. Spraying calendar for 1903. <Iowa Agric. Exp. Station, 1903 pp. 8, 1 fig.
304. DALRYMPLE, W. H. Sheep. <Bull. No. 74, sec. ser., Louisiana Agric. Exp. Station, June, 1903, pp. 216-219.
Treats of parasitic nasal catarrh caused by *Œstrus ovis* Linn.
305. DAVENPORT, C. B., F. E. LUTZ, N. S. SHALER, and H. C. WEEKS. Reports on plans for the extermination of mosquitoes on the North Shore of Long Island between Hempstead Harbor and Cold Spring Harbor. <New York, 1902, pp. 125, 8 figs., 1 map.
306. DAVIS, G. Petroleum as an insecticide. <Rural New Yorker, 14 August, 1900, p. 542.
307. DAVIS, G. Petroleum treatment for San Jose scale. <American Agriculturist, 17 November, 1900.
308. DAVIS, N. S. The apple-tree tent caterpillar, and its life history. <Bull. 120, Penna. Dept. Agric. 1903 (1904), pp. 15, 28 pls.
309. DEARNESS, J. A parasite of the San José scale. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 87-88.
310. DOANE, R. W. A new sugar beet pest, and other insects attacking the beet. <Bull. No. 42, Wash. Agric. Exp. Sta., April, 1900, pp. 14, 5 figs.
Treats of *Pemphigus beta* Doane, *Psylliodes punctulata* Melsh., and *Carneades messoria* Harr.

311. DOANE, R. W., and D. A. BRODIE. The variegated cutworm. <Bull. No. 47, Wash. Agric. Exper. Station, 1901, pp. 16, 5 figs.
Account of *Peridroma saucia* Hübn.
312. DORAN, E. W. Vernacular names of insects. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 108-111.
313. DOTEN, S. B. The carpenter worm. <Bull. No. 49, Nevada Agric. Exp. Sta., September, 1900, pp. 12, 6 figs., 2 pls.
Account of *Prionoxystus robiniae* Peck.
314. DOTEN, S. B. Crickets. The western cricket (*Anabrus simplex* Hald.). <Bull. No. 56, Nev. Agric. Exp. Station, January, 1904, pp. 12, 3 figs.
315. DOTEN, S. B. Grasshoppers in alfalfa fields. <Bull. No. 57, Nevada Agric. Exp. Station, January, 1904, 4 pp., 2 figs.
316. DOTY, S. N. Fall treatment for insects. <Wisconsin Agriculturist, 14 November, 1901, p. 10.
317. DOTY, S. N. Plums and insects. <Wisc. Agriculturist, 22 May, 1902, p. 10.
318. DOTY, S. N. Destructive grape worms. <Journal of Agriculture, 26 June, 1902.
319. EARLE, F. S. Tomatoes. <Bull. No. 108, Ala. Agric. Exp. Sta., April, 1900, pp. 36.
Notes on *Heliothis armigera* Fab., *Phlegethontius carolina* Linn., *Phyllotreta vitata* Fab. and cutworms.
320. EARLE, F. S. Orchard notes. <Bull. No. 112, Ala. Agric. Exp. Sta., December, 1900, pp. 189-190.
Notes on San Jose scale.
321. EARLE, F. S., and C. F. AUSTIN. Grapes. <Bull. No. 110, Ala. Agric. Exp. Sta., December, 1900, pp. 64-66.
Notes on spraying for grape insects.
322. ECKEL, L. S. The resin-gnat Diplosis and three of its parasites. <Entom. News, 1903, pp. 279-284, pl. 1.
323. EHRHORN, E. M. Some of our common orchard pests. <Pacific Rural Press, 17 February, 1900, p. 100.
324. EHRHORN, E. M. Fighting insect pests. <Pacific Rural Press, 3 March, 1900, p. 132.
325. EHRHORN, E. M. Scale and their parasites. <California Fruit Grower, December 12, 1901, pp. 3-4.
326. EHRHORN, E. M. The California peach-root borer. <Rept. Calif. State Bd. Hortic. f. 1901-2 (December, 1902), pp. 93-102, 7 figs.
327. EHRHORN, E. M. To circumvent the canker worm. <Calif. Fruit Grower, 14 November, 1903.

328. EHRHORN, E. M. Codling moth parasite here. <Calif. Fruit Grower, 12 November, 1904.
329. EISEN, G. The fig: its history, culture, and curing, with a descriptive catalogue of the known varieties of figs. <Bull. No. 9, Div. Pomology, U. S. Dept. Agric., December, 1901, pp. 316.
330. EISEN, G. Capri fig tree plantations. <California Fruit Grower, 25 January, 1902, pp. 3-4.
331. EMERSON, R. A. Plant lice on plum and cherry. <Amer. Agriculturist, 28 June, 1902, p. 820.
332. EMMETT, D. Experience with San Jose scale. <American Gardening, 6 April, 1901, p. 251.
333. EMORY, R. S. The San Jose scale proposition. <American Agriculturist, 14 February, 1903, p. 186.
334. EMORY, R. S. Battling with the scale. <American Agriculturist, 6 February, 1904, p. 137.
335. EVANS, J. D. Notes on the season of 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), p. 96.
336. EVANS, J. D. Notes on insects of the year 1900. <31st Ann. Rept. Ent. Soc. Ontario, February, 1901, p. 39.
337. EVANS, J. D. Notes on insects of the year. <32d Ann. Rept. Ent. Soc. Ontario f. 1901 (1902), pp. 26-27.
338. EVANS, J. D. Report on insects of the year. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 38-39, 2 figs.
339. F —, W. V. Mosquitoes and malaria. <Rural New Yorker, 2 June, 1900.
340. FARQUHAR, J. K. L. M. The gypsy moth and its ravages. <Trans. Mass. Hortic. Soc. f. 1904 (1904), pp. 19-25.
341. FARRINGTON, E. L. Another alarming insect. <Country Gentleman, 3 November, 1904, pp. 1001-1002, 4 figs.
342. FELT, E. P. Scale. <American Agriculturist, 4 March, 1900, p. 375.
Note on *Aspidiotus nerii* Bouché.
343. FELT, E. P. Gipsy moth. <Country Gentleman, 8 March, 1900, p. 196.
344. FELT, E. P. The forest tent-caterpillar. <Country Gentleman, 15 March, 1900, p. 217.
345. FELT, E. P. Massachusetts will suffer first. <Country Gentleman, 5 April, 1900, p. 283.
Note on *Porthetria dispar* Linn.
346. FELT, E. P. Buffalo tree-hopper. <Country Gentleman, 5 April, 1900, p. 281.

347. FELT, E. P. Scurvy bark-louse. <Country Gentleman, 12 April, 1900, p. 302.
348. FELT, E. P. Haystack moth. <Country Gentleman, 12 April, 1900, p. 302.
Note on *Pyralis costalis* Fab.
349. FELT, E. P. Elm leaf-beetle. <American Agriculturist, 14 April, 1900, p. 483.
350. FELT, E. P. Cold and caterpillars. <American Agriculturist, 26 May, 1900, p. 650.
351. FELT, E. P. Elm leaf aphid. <Country Gentleman, 7 June, 1900, p. 462.
Note on *Schizoneura americana* Riley.
352. FELT, E. P. Bees and spraying, a warning. <Country Gentleman, 7 June, 1900, p. 470.
353. FELT, E. P. Rose beetle. <Country Gentleman, 21 June, 1900, p. 502, 1 fig.
354. FELT, E. P. White grubs in abundance. <Country Gentleman, 21 June, 1900, p. 509.
355. FELT, E. P. Fifteenth Report of the State entomologist on the injurious and other insects of the State of New York. <Bull. N. Y. State Museum, vol. 6, No. 31, June, 1900, pp. 533-653.
356. FELT, E. P. Hickory gall aphid. <Country Gentleman, 5 July, 1900, p. 542.
Note on *Phylloxera carycaulis* Fitch.
357. FELT, E. P. Crude petroleum as an insecticide. <Country Gentleman, 12 July, 1900, pp. 569-570.
358. FELT, E. P. Tent caterpillars and canker worms. <Country Gentleman, 26 July, 1900, p. 605.
359. FELT, E. P. Practical spraying. <Country Gentleman, 26 July, 1900, p. 640.
360. FELT, E. P. Plugging trees with sulfur. <Country Gentleman, 9 August, 1900, p. 650.
361. FELT, E. P. Asparagus beetle. <Country Gentleman, 16 August, 1900, p. 662.
362. FELT, E. P. Cicada killer. <Country Gentleman, 16 August, 1900, p. 662.
363. FELT, E. P. Apple-tree worm. <Country Gentleman, 6 September, 1900, p. 722.
Note on *Datana ministra* Dru.
364. FELT, E. P. Ash gray blister beetle. <Country Gentleman, 6 September, 1900, p. 722.
365. FELT, E. P. Tulip tree scale. <Country Gentleman, 6 September, 1900, p. 722.

366. FELT, E. P. Cicada killer. <Country Gentleman, 6 September, 1900, p. 722.
367. FELT, E. P. Black blister beetle. <Country Gentleman, 13 September, 1900, p. 742.
368. FELT, E. P. Mating of potato beetles. <Country Gentleman, 13 September, 1900, p. 743.
369. FELT, E. P. Chinch bug abundant. <Country Gentleman, 13 September, 1900, p. 750.
370. FELT, E. P. Katydid eggs. <Country Gentleman, 27 September, 1900, p. 782.
371. FELT, E. P. An infestation of grain moths. <Country Gentleman, 27 September, 1900, p. 789.
372. FELT, E. P. Illustrated descriptive catalogue of some of the more injurious and beneficial insects. <Bull. N. Y. State Museum, vol. 8, No. 37, September, 1900, pp. 54, 83 figs.
373. FELT, E. P. White grubs or muckworms. <Country Gentleman, 4 October, 1900, p. 803.
374. FELT, E. P. Chrysalis of milkweed butterfly. <Country Gentleman, 11 October, 1900, p. 829.
375. FELT, E. P. Borer in the smoke-tree. <Amer. Gardening, 13 October, 1900, p. 679.
376. FELT, E. P. Grain moth. <Country Gentleman, 25 October, 1900, p. 862.
377. FELT, E. P. Woolly aphid. <Country Gentleman, 25 October, 1900, p. 862.
378. FELT, E. P. Some effects of early spring applications of insecticides on fruit trees. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 22-25.
379. FELT, E. P. Whale oil soap experiments. <Country Gentleman, 1 November, 1900, p. 884.
380. FELT, E. P. The celery Plusia. <Country Gentleman, 1 November, 1900, p. 884.
Notes on *Plusia simplex* Gn. and *Ormenis septentrionalis* Spin.
381. FELT, E. P. Hessian fly. <Country Gentleman, 22 November, 1900, p. 942.
382. FELT, E. P. Remedies for San Jose scale. <Country Gentleman, 29 November, 1900, p. 965.
383. FELT, E. P. Scale on Japan plum. <American Gardening, 8 December, 1900, p. 811.
384. FELT, E. P. Household insects. <Rept. Bureau of Farmers' Institutes, N. Y., 1900, pp. 86-95, 4 pls.
Notes on many species.

385. FELT, E. P. Injurious insects and how to control them. <Rept. Bureau of Farmers' Institutes, N. Y., 1900, pp. 59-85, 4 figs., 4 pls.
Life-habits and remedies for many species.
386. FELT, E. P. Wheat damaged by moth. <Country Gentleman, 10 January, 1901, p. 24.
387. FELT, E. P. Wireworms. <Country Gentleman, 28 February, 1901, p. 168.
388. FELT, E. P. Scurfy bark louse. <Country Gentleman, 28 March, 1901, p. 256.
389. FELT, E. P. Sixteenth Report on the injurious and other insects of the State of New York. <Bull. N. Y. State Museum, vol. 7, No. 36, March, 1901, pp. 951-1048, 16 pls.
390. FELT, E. P. Grape-vine Aspidiotus. <Country Gentleman, 4 April, 1901, pp. 278-279.
391. FELT, E. P. Tent caterpillars. <Country Gentleman, 9 May, 1901, p. 386.
392. FELT, E. P. Bugs in peas. <Country Gentleman, 16 May, 1901, p. 403.
393. FELT, E. P. Trap-lanterns—Warning. <Country Gentleman, 16 May, 1901, p. 406.
394. FELT, E. P. Spraying and poultry. <Country Gentleman, 23 May, 1901, p. 423.
395. FELT, E. P. Scale on raspberry. <Country Gentleman, 23 May, 1901, p. 423.
396. FELT, E. P. Hessian fly; borers. <Country Gentleman, 30 May, 1901, p. 442.
Notes on *Mayetiola destructor* Say, *Cyllene robiniae* Först., and *Scolytus rugulosus* Ratz.
397. FELT, E. P. Hessian fly. <Country Gentleman, 13 June, 1901, p. 486.
398. FELT, E. P. Hickory gall—San Jose. <Country Gentleman, 20 June, 1901.
Note on *Phylloxera caryaecaulis* Fitch and San Jose scale.
399. FELT, E. P. The fruit-tree bark-beetle. <Country Gentleman, 4 July, 1901, p. 554.
400. FELT, E. P. Squash bug. <Country Gentleman, 11 July, 1901, p. 562, 1 fig.
401. FELT, E. P. Leaf-cutter bee. <Country Gentleman, 18 July, 1901, p. 582.
402. FELT, E. P. Plum curculio. <Country Gentleman, 25 July, 1901, p. 604.

403. FELT, E. P. Larch lappet. <Country Gentleman, 8 August, 1901, p. 642.
404. FELT, E. P. Borers in shade trees. <American Gardening, 10 August, 1901, p. 558.
405. FELT, E. P. Blister beetles. <Country Gentleman, 15 August, 1901, p. 662.
Note on *Epicauta cinerea* Först.
406. FELT, E. P. Cicada killer. <Country Gentleman, 22 August, 1901, p. 682.
407. FELT, E. P. The Hessian fly. <Country Gentleman, 29 August, 1901, p. 709.
408. FELT, E. P. Rabbit bot-fly. <Poultry Monthly, 19 September, 1901, pp. 497-498.
Probably *Cuterebra cuniculi* Clark from Belgian hare.
409. FELT, E. P. Angoumois moth. <Country Gentleman, 26 September, 1901, p. 782.
410. FELT, E. P. Birch leaf Bucculatrix. <Country Gentleman, 26 September, 1901, p. 787.
411. FELT, E. P. Golden oak scale and leaf feeder. <Country Gentleman, 26 September, 1901, p. 789.
412. FELT, E. P. Ants on fig trees. <Country Gentleman, 26 September, 1901, p. 789.
413. FELT, E. P. Celery worms. <Country Gentleman, 26 September, 1901, p. 789.
414. FELT, E. P. Saddle back caterpillar. <Country Gentleman, 26 September, 1901, p. 789.
415. FELT, E. P. Hessian fly in New York State. <Country Gentleman, 3 October, 1901, pp. 799-800.
416. FELT, E. P. Apple tree borer. <Country Gentleman, 3 October, 1901, p. 803.
417. FELT, E. P. Borers and plant-lice. <Country Gentleman, 10 October, 1901, p. 829.
418. FELT, E. P. Hackberry gall. <Country Gentleman, 17 October, 1901, p. 842.
419. FELT, E. P. Seventeen year Cicada. <Country Gentleman, 7 November, 1901, p. 902.
420. FELT, E. P. Cigar case-bearer. <Country Gentleman, 7 November, 1901, p. 902.
421. FELT, E. P. Katydid eggs. <Country Gentleman, 14 November, 1901, p. 922, 2 figs.
Note on eggs of *Microcentrum retinervis* Burm.

422. FELT, E. P. Scale insects of importance and list of the species in New York State. <Bull. No. 46, N. Y. State Museum (1901), pp. 94, 15 pls.
423. FELT, E. P. The Hessian fly in New York State in 1901. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 22-24.
424. FELT, E. P. Further notes on crude petroleum and other insecticides. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 49-50.
425. FELT, E. P. Observations on forest and shade tree insects in New York State. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 63-68.
426. FELT, E. P. Soft scale on fern. <Country Gentleman, 13 February, 1902, p. 133.
427. FELT, E. P. Lady bugs and carpet-beetles. <Country Gentleman, 13 February, 1902, p. 133, 2 figs.
Notes on *Adalia bipunctata* Linn., *Anthrenus scrophulariae* Linn., and *Attagenus piceus* Oliv.
428. FELT, E. P. Forest tent caterpillar. <Country Gentleman, 6 March, 1902, pp. 196-197.
429. FELT, E. P. Spraying for Cicada. <Country Gentleman, 13 March, 1902, p. 219.
430. FELT, E. P. San José scale investigations. <Country Gentleman, 13 March, 1902, p. 221.
431. FELT, E. P. Fumigation. <Country Gentleman, 27 March, 1902, p. 262.
432. FELT, E. P. Insects in New York, I. <Country Gentleman, 27 March, 1902, p. 265.
433. FELT, E. P. Insects in New York, II. <Country Gentleman, 3 April, 1902, pp. 290-291.
434. FELT, E. P. Bark louse. <Country Gentleman, 10 April, 1902, p. 306.
435. FELT, E. P. Insects in New York, III. <Country Gentleman, 10 April, 1902, p. 308.
436. FELT, E. P. White scale. <Country Gentleman, 17 April, 1902, p. 329.
437. FELT, E. P. Tussock moth. <Country Gentleman, 29 April, 1902, p. 351.
438. FELT, E. P. Scale insects. <Country Gentleman, 1 May, 1902, p. 370.
439. FELT, E. P. Bagworms. <Country Gentleman, 8 May, 1902, p. 390.

440. FELT, E. P. May beetles. <Country Gentleman, 8 May, 1902, p. 390.
441. FELT, E. P. The grape-root worm. <Country Gentleman, 15 May, 1902, p. 413, 2 figs.
442. FELT, E. P. Tent caterpillar. <Country Gentleman, 15 May, 1902, p. 414.
443. FELT, E. P. The apple-tree tent caterpillar. <Country Gentleman, 22 May, 1902, p. 438-439.
444. FELT, E. P. Onion thrips. <Country Gentleman, 29 May, 1902, p. 451.
445. FELT, E. P. The elm tree bark-louse. <Country Gentleman, 5 June, 1902, p. 471.
446. FELT, E. P. Gartered plume moth. <Country Gentleman, 12 June, 1902, p. 491.
Note on *Oxyptilus periscelidactylus* Fitch.
447. FELT, E. P. Hop vine aphid. <Country Gentleman, 12 June, 1902, p. 490.
448. FELT, E. P. Owl beetle. <Country Gentleman, 12 June, 1902, p. 490, 1 fig.
Note on *Alaus oculatus* Linn.
449. FELT, E. P. Moth traps. <Country Gentleman, 19 June, 1902, p. 511.
450. FELT, E. P. Lined spittle hopper. <Country Gentleman, 26 June, 1902, p. 530.
Note on *Ptyelus lineatus* Linn.
451. FELT, E. P. Silver tip. <Country Gentleman, 26 June, 1902, p. 531.
Note on *Limothrips poaphagus* Comst.
452. FELT, E. P. Grapevine root worm. <Country Gentleman, 10 July, 1902, pp. 574-575.
453. FELT, E. P. Bedbugs in henhouses. <Country Gentleman, 24 July, 1902, p. 611.
454. FELT, E. P. San Jose scale. <Country Gentleman, 28 August, 1902, p. 711.
455. FELT, E. P. Hag moth caterpillar. <Country Gentleman, 4 September, 1902, p. 730.
456. FELT, E. P. Asparagus beetle. <Country Gentleman, 2 October, 1902, p. 810.
457. FELT, E. P. Cabbage root maggot. <Country Gentleman, 27 November, 1902, p. 974, 1 fig.
458. FELT, E. P. Experimental work in New York State against the San Jose scale. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 35-36.

459. FELT, E. P. Notes for the year in New York. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 102-103.
460. FELT, E. P. Observations on certain insects attacking pine trees. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 103-105.
461. FELT, E. P. Potato wireworms. <Country Gentleman, 4 December, 1902, p. 992.
462. FELT, E. P. Grapevine root worm. <Bull. 59, N. Y. State Museum, December, 1902, pp. 49-84, 6 pls. General account of *Fidia viticida* Walsh.
463. FELT, E. P. Insects injurious to elm trees. <Fifth Ann. Rept. Comm. Fish, Game and Forests of the State of New York, 1901 (1902), pp. 351-379, 3 pls., 7 figs.
464. FELT, E. P. Seventeenth Report of the State Entomologist on injurious and other insects of the State of New York. <Bull. No. 53, N. Y. State Museum (1902), pp. 699-925, 6 pls., 29 figs.
465. FELT, E. P. Crude petroleum as an insecticide. <Proc. 23d Ann. Meet. Soc. Prom. Agric. Science, 1902, pp. 10.
466. FELT, E. P. Report of committee on insects of the Eastern N. Y. Hortic. Society. <Proc. 5th Ann. Meet. Eastern N. Y. Hortic. Soc., 1902, pp. 20-26.
467. FELT, E. P. Report of the committee on insects. <Sixth Ann. Rept. Eastern N. Y. Hortic. Soc., 1902, pp. 210-218.
468. FELT, E. P. Elm leaf-beetle in New York State. <Bull. No. 57, N. Y. State Museum, 1902, pp. 1-43, 8 pls.
469. FELT, E. P. Insect enemies to shade trees. <Rept. Colo. State Bd. Hortic. f. 1901 (1902), pp. 164-170.
470. FELT, E. P. Maggots in mushrooms. <Country Gentleman, 1 January, 1903, p. 6.
471. FELT, E. P. Cucumber beetle. <Country Gentleman, 15 January, 1903, p. 43.
472. FELT, E. P. Insecticides and notes. <Country Gentleman, 15 January, 1903, p. 47.
473. FELT, E. P. Beware the pea weevil. <Country Gentleman, 22 January, 1903, p. 63.
474. FELT, E. P. Legislation against pests. <Country Gentleman, 29 January, 1903, p. 89.
475. FELT, E. P. The San Jose scale. <Country Gentleman, 19 February, 1903, p. 158.
476. FELT, E. P. Beneficial insects. <Country Gentleman, 5 March, 1903, p. 206.

477. FELT, E. P. Arsenate of lead. <Country Gentleman, 19 March, 1903, p. 252.
478. FELT, E. P. Grapevine root worm. <Country Gentleman, 19 March, 1903, p. 255.
479. FELT, E. P. Fleas. <Country Gentleman, 26 March, 1903, p. 276.
480. FELT, E. P. Apple-tree bark-louse. <Country Gentleman, 26 March, 1903, p. 276.
481. FELT, E. P. Pea weevil. <Country Gentleman, 2 April, 1903, p. 293.
482. FELT, E. P. San Jose scale. <Country Gentleman, 2 April, 1903, p. 300.
483. FELT, E. P. Dust and other sprays. <Country Gentleman, 16 April, 1903, p. 350.
484. FELT, E. P. Advice about spraying. <Country Gentleman, 30 April, 1903, p. 392.
485. FELT, E. P. Arsenate of lead. <Country Gentleman, 7 May, 1903, p. 410.
486. FELT, E. P. Hints to fruit growers and truckers. <Amer. Agriculturist, 20 June, 1903, p. 648.
487. FELT, E. P. Destroying flies. <Country Gentleman, 25 June, 1903, p. 561.
488. FELT, E. P. Mosquitos. <N. Y. State Museum folder, June, 1903, 8 pp.
489. FELT, E. P. Plant lice. <Country Gentleman, 9 July, 1903, p. 590.
490. FELT, E. P. Killing ants. <Country Gentleman, 9 July, 1903, p. 590.
491. FELT, E. P. Rose beetles. <Country Gentleman, 9 July, 1903, p. 590.
492. FELT, E. P. Plant lice. <Country Gentleman, 16 July, 1903, p. 610.
493. FELT, E. P. Spray for potatoes. <Country Gentleman, 23 July, 1903, p. 630.
494. FELT, E. P. Plant lice. <Country Gentleman, 30 July, 1903, p. 650.
495. FELT, E. P. Tulip tree scale. <Country Gentleman, 20 August, 1903, p. 712.
496. FELT, E. P. The literature of American Economic Entomology. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 7-22.

497. FELT, E. P. <Mosquitos on high ground. <Country Gentleman, 10 September, 1903, p. 781.
498. FELT, E. P. Summary of root-worm situation and experiments. <Country Gentleman, 24 September, 1903, p. 828.
499. FELT, E. P. Two tree pests. <Country Gentleman, 1 October, 1903, p. 852.
500. FELT, E. P. Chinese lady bugs. <Country Gentleman, October 8, 1903, p. 871.
501. FELT, E. P. Insects affecting forest trees. <Seventh Report Forest, Fish, and Game Commission, State of New York, December, 1903, pp. 479-534, 16 pls., 26 figs.
502. FELT, E. P. Grapevine root worm. <Bull. No. 72, N. Y. State Museum, December, 1903, pp. 55, pls. 13. Account of *Fidia viticida* Walsh.
503. FELT, E. P. Crude petroleum as an insecticide. <Proc. Soc. Prom. Agric. Sci. f. 1902 (December, 1903), pp. 86-95.
504. FELT, E. P. Eighteenth Report of the State Entomologist on injurious and other insects of the State of New York. <Bull. 64, N. Y. State Museum, Albany, 1903, pp. 89-193, 6 pls., 2 figs.
505. FELT, E. P. Importance of injurious insects introduced from abroad. <Proc. 24th Ann. Meet. Soc. Prom. Agric. Science (1903), pp. 39-48.
506. FELT, E. P. Recent work with insecticides in the East. <Colo. State Bd. Hortic. f. 1902 (1903), pp. 121-127.
507. FELT, E. P. Work and observations in 1902. <N. Y. State Fruit Growers Assn. Rept., 1903, pp. 92-94.
508. FELT, E. P. Insecticides and fungicides. <N. Y. State Museum Handbook, No. 18, pp. 16, 1903.
509. FELT, E. P. Apple-tree bark-louse. <Country Gentleman, 31 March, 1904, p. 296.
510. FELT, E. P. Apple-tree bark-louse. <Country Gentleman, 14 April, 1904, p. 345.
511. FELT, E. P. Pea louse. <Country Gentleman, 21 April, 1904, p. 369.
512. FELT, E. P. Bark louse. <Country Gentleman, 5 May, 1904, p. 416.
513. FELT, E. P. Remedies for the San Jose scale. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 52-54.
514. FELT, E. P. Observations in 1903. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 65-69.

- 514a. FELT, E. P. Importance of laboratory and field work in economic entomology. <Proc. 17 Ann. Conv. Amer. Agric. Coll. and Exp. Stations; Bull. 142, Off. Exp. Sta., Dept. Agric., 1904, pp. 182-184.
515. FELT, E. P. Ants in lawn. <Country Gentleman, 2 June, 1904, p. 512.
516. FELT, E. P. Blue-banded milliped. <Country Gentleman, 9 June, 1904, p. 537.
517. FELT, E. P. Owl beetle. <Country Gentleman, 16 June, 1904, pp. 560-561.
518. FELT, E. P. San Jose scale. <Country Gentleman, 7 July, 1904, p. 676.
519. FELT, E. P. Cutworms. <Country Gentleman, 7 July, 1904, p. 676.
520. FELT, E. P. Elm gall. <Country Gentleman, 7 July, 1904, p. 676.
521. FELT, E. P. Cabbage worms. <Country Gentleman, 21 July, 1904, p. 667.
522. FELT, E. P. Larder beetle. <Country Gentleman, 4 August, 1904, p. 707.
523. FELT, E. P. San Jose scale in New York. <Rural New Yorker, 6 August, 1904, p. 589.
524. FELT, E. P. Beetle—Lice. <Country Gentleman, 18 August, 1904, p. 747.
525. FELT, E. P. Nineteenth report of the State entomologist on injurious and other insects of the State of New York, 1903. <Bull. No. 76, N. Y. State Museum, August, 1904, pp. 91-235, 4 pls.
526. FELT, E. P. Killing ants. <Country Gentleman, 8 September, 1904, p. 817.
527. FELT, E. P. Oak potato gall. <Country Gentleman, 8 September, 1904, p. 817.
528. FELT, E. P. Apple tree caterpillars. <Country Gentleman, 15 September, 1904, p. 841.
529. FELT, E. P. False caterpillar. <Country Gentleman, 15 September, 1904, p. 841.
530. FELT, E. P. Hickory leaf-gall. <Country Gentleman, 29 September, 1904, p. 887.
531. FELT, E. P. Fall apple-leaf miners. <Country Gentleman, 13 October, 1904, p. 993.

532. FELT, E. P. Buffalo moth. <Country Gentleman, 10 November, 1904, p. 1028.
533. FELT, E. P. Scurfy bark-louse. <Country Gentleman, 24 November, 1904, p. 1076, 1 fig.
534. FELT, E. P. A promising combination for scale. <American Agriculturist, 10 December, 1904, p. 530.
535. FELT, E. P. Mosquitoes or Culicidae of New York State. <Bull. No. 79, New York State Museum, Albany, December, 1904, pp. 241-391, 57 pls.
536. FELT, E. P. The cause and control of insect depredations. <Proc. Soc. Prom. Agric. Science, 1904, pp. 73-83.
537. FELT, E. P. Recent work upon the grapevine root-worm. <Proc. West. N. Y. Hortic. Soc. f. 1904 (1904), pp. 48-51.
538. FERNALD, C. H., and H. T. FERNALD. Report of the entomologists. <Thirteenth Annual Rept. Hatch Exp. Station, Mass., January, 1901, pp. 84-88.
Brief notes on several species.
539. FERNALD, H. T. Spraying mixtures for insects and plant diseases. <Nature Leaflet No. 4, State Bd. Agric. Mass., April, 1900, 4 pp.
540. FERNALD, H. T. The white marked tussock moth. <Nature Leaflet No. 5, State Bd. Agric. Mass., May, 1900, 3 pp., 1 fig.
541. FERNALD, H. T. The spiny elm caterpillar. <Nature Leaflet No. 6, State Bd. Agric. Mass., May, 1900, pp. 4, 3 figs.
Treats of *Euvanessa antiopa* Linn.
542. FERNALD, H. T. Some insects injuring market garden crops. <Mass. Crop Report f. May, 1900, pp. 29-40, 6 figs.
Notes on *Crioceris asparagi* Linn., *Pieris rapae* Linn., *Anasa tristis* DeG., *Melittia satyriniformis* Hübn., *Diabrotica vittata* Fab., *Phorbia ceparum* Meig., cutworms, and flea beetles.
543. FERNALD, H. T. The imported elm leaf-beetle. <Bull. No. 76, Mass. Agric. Exp. Station, July, 1901, pp. 8, 1 fig.
544. FERNALD, H. T. Three common orchard scales. <Rept. Mass. State Board Agric., 1901, pp. 353-363, 2 figs., 1 pl.
Treats of *Mytilaspis pomorum* Bouché, *Chionaspis furfuris* Fitch and *Aspidi-otus perniciosus* Comst.
545. FERNALD, H. T. Insects injurious to fruits and vegetables. <Trans. Mass. Hortic. Soc. f. 1901, pp. 141-143.
546. FERNALD, H. T. The plum webbing saw-fly. <Entom. News, 1903, pp. 298-302.
Treats of *Lyda rufipes* Marl.
547. FERNALD, H. T. Spraying for the San Jose scale. <American Agriculturist, 17 January, 1903, p. 76.

548. FERNALD, H. T., and W. E. HINDS. The grass Thrips. <Bull. No. 67, Mass. Agri. Exp. Sta., May, 1900, pp. 12, 1 pl. Treats of *Anaphothrips striata* Osb. and of greenhouse work against Thrips.
549. FERNALD, H. T., J. B. SMITH, W. E. BRITTON, and M. V. SLINGERLAND. Scarcity of potato beetles. <Rural New Yorker, 16 July, 1904, p. 541.
550. FISHER, G. E. Report of the inspector of San Jose scale for 1900. <Ontario Dept. Agric., 1901, pp. 19, 2 figs.
551. FISHER, G. E. San José scale discussion. <32d Ann. Rept. Ent. Soc. Ontario f. 1901 (1902), pp. 3-6.
552. FISHER, G. E. San Jose scale. <33d Ann. Rept. Ontario Fruit Growers' Assoc., f. 1901 (1902), pp. 18-25.
553. FISHER, G. E. Report of committee on San Jose scale. <34th Ann. Rept. Fruit Growers' Assn. Ontario, 1902 (1903), pp. 69-72.
554. FISHER, G. E. Report on injurious insects in 1902. <33d Rept. Ent. Soc. Ontario, pp. 15-20, 3 figs., 1903.
555. FISHER, G. E. Report of the inspector of San José scale, 1902. <Ontario Dept. Agric., 1903, 24 pp.
556. FISKE, W. F. The Colorado beetle. <Southern Farmer, June, 1902, pp. 11-12.
557. FISKE, W. F. Notes on certain injurious insects in Georgia. <Proc. Georgia State Hortic. Soc. f. 1902 (1902), pp. 68-77, 7 figs.
558. FISKE, W. F. A study of the parasites of the American tent caterpillar. <Techn. Bull. No. 6, N. H. Agric. Exp. Station, April, 1903, pp. 183-230, 6 figs.
559. FLETCHER, J. The flour mite. <Farmer's Advocate, 1 March, 1900, p. 132.
560. FLETCHER, J. Red spider injuries in Manitoba. <Farmer's Advocate, 15 October, 1900, pp. 602-603.
561. FLETCHER, J. Recent additions to the list of injurious insects of Canada. <Trans. Roy. Soc. Can., 1899-1900 (1900), pp. 207-231.
Notes on a number of species.
562. FLETCHER, J. Notes from Canada. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 94-96.
563. FLETCHER, J. Injurious insects in Ontario during 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 106-111.
564. FLETCHER, J. Injurious insects in Ontario during 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 62-72, 16 figs.

565. FLETCHER, J. Report of the entomologist and botanist. <Ann. Rept. Exper. Farms, Canada f. 1900 (1901), pp. 195-249, 18 figs.
Notes on many insects.
566. FLETCHER, J. Report of the entomologist and botanist. <Ann. Rept. Expt. Farms, Canada f. 1901 (1902), pp. 197-262, 19 figs.
567. FLETCHER, J. The San José scale in Ohio and Ontario. <32d Ann. Rept. Ent. Soc. Ontario f. 1901 (1902), pp. 7-10.
568. FLETCHER, J. Report of the entomologist and botanist. <Rept. Exptl. Farms, Canada f. 1902 (1903), pp. 169-201, 5 figs.
569. FLETCHER, J. Insects injurious to fruit. <34th Rept. Fruit Growers' Assn., Ontario 1902 (1903), pp. 54-55.
570. FLETCHER, J. Can the pea weevil be exterminated? <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 69-73.
571. FLETCHER, J. Injurious insects of the year in Canada. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 78-82.
572. FLETCHER, J. Insects injurious to Ontario crops in 1902. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 80-87, 6 figs.
573. FLETCHER, J. Insects injurious to Ontario crops in 1903. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 62-71, 6 figs.
574. FLETCHER, J. Insects of the year in Canada. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 82-88.
575. FLETCHER, J. Report of the entomologist and botanist. <Rept. Exptl. Farms, Canada f. 1903 (1904), pp. 163-215.
576. FLETCHER, J. Entomology and botany in agriculture. <Report Committee on Agriculture and Colonization, Canada, 1904, reprint, pp. 57-83.
577. FORBES, S. A. Report of the Illinois State entomologist concerning operations under the horticultural inspection act. <Springfield, Ill., 31 October, 1900, 30 pp.
578. FORBES, S. A. Twenty-first report of the State entomologist on the noxious and beneficial insects of the State of Illinois. <Chicago, 1900, pp. 184, 9 pls., 97 figs.
Includes bulletins Nos. 56 and 60, issued in 1899.
579. FORBES, S. A. On the principal nursery pests likely to be distributed in trade. < Cir. No. 36, Univ. Illinois Agric. Exp. Station, July, 1901, pp. 43, figs. 33.
580. FORBES, E. B. The Hessian fly. <Press Bull., No. 13, Minn. Agric. Exp. Station, 12 August, 1901, pp. 11, 2 figs.

581. FORBES, S. A. Experiments with insecticides for the San Jose scale. <Bull. No. 71, Illinois Agric. Exp. Sta., April, 1902, pp. 241-264.
Experiments with the use of lime, salt, and sulphur.
582. FORBES, S. A. Insecticide experiments for the San Jose scale. <Cir. 53, Ill. Agric. Exp. Station, May, 1902, 2 pp.
583. FORBES, S. A. Additional insecticide experiments for the San Jose scale. <Bull. No. 72, Illinois Agric. Exp. Sta., May, 1902, pp. 265-267.
584. FORBES, S. A. The corn bill-bugs in Illinois. <Bull. No. 79, Ill. Agric. Exp. Station, October, 1902, pp. 26.
585. FORBES, S. A. Methods and results of field insecticide work against the San Jose scale, 1899-1902. <Bull. No. 80, Ill. Agric. Exp. Station, October, 1902, pp. 31, pls. 9.
586. FORBES, S. A. Entomological notes and inspection report for 1901. <Trans. Ill. Hortic. Soc. f. 1901 (1902), pp. 142-154.
587. FORBES, S. A. San Jose scale and other scale insects. <Trans. Ill. State Hortic. Soc. f. 1902 (1903), pp. 121-126.
588. FORBES, S. A. Excellencies and defects of existing legislation for the control of insect and fungus pests. <Proc. 16th Ann. Convention Assn. Amer. Agric. Coll. and Exper. Stations, Bull. No. 123, Off. Exp. Sta., U. S. Dept. Agric., May, 1903, pp. 122-126.
589. FORBES, S. A. Twenty-second report of the State entomologist on the noxious and beneficial insects of the State of Illinois. <Champaign, Ill., 1903, pp. 149, 9 pls., 30 figs.
590. FORBES, S. A. Notes on the insecticide use of the gasoline blast lamp. <Bull. No. 89, Ill. Agric. Exp. Station, November, 1903, pp. 145-154.
591. FORBES, S. A. The more important insect injuries to Indian corn. <Bull. No. 95, Ill. Agric. Exp. Station, November, 1904, pp. 331-399, 5 pls., 38 figs.
592. FORBES, S. A., and C. A. HART. The economic entomology of the sugar beet. <Bull. No. 60, Illinois Agric. Exp. Sta., October, 1900, pp. 397-523, 96 figs., 9 pls.
593. FORBUSH, E. H. Birds as protectors of woodlands. <Mass. Crop Report f. July, 1900, pp. 26-39, 4 figs.
Treats of insectivorous birds.
594. FORBUSH, E. H. Birds and insects in their relation to agriculture. <Trans. Mass. Hortic. Soc. f. 1902, pt. 1, pp. 95-101.
595. FORKERT, C. Borers in large trees. <American Gardening, 7 September, 1901.
Borer in pecan tree, probably *Mallodon dasystomus* Say.

596. FORT, J. P. The relation of insectivorous birds to fruit-growing. <Proc. Georgia Hortic. Soc. f. 1903, pp. 70-75.
597. FOSTER, F. H. Effects of defoliation by caterpillars on tree growth. <Psyche, 1904, p. 36.
598. FOWLER, C. Some insects of the year 1899-1900. <Rept. Agric. Exp. Sta. California f. 1898-1901 (1902), pp. 73-85, 9 figs.
599. FRENCH, G. H. A parasite the supposed cause of some cases of epilepsy. <Can. Ent., September, 1900, pp. 263-264, 1 fig.
600. FUCHS, H. T. The boll weevil. <Texas Stockman and Farmer, 21 October, 1903.
601. FULTON, S. H. Cantaloupe culture in Georgia. <Bull. No. 57, Ga. Exp. Station, August, 1902, pp. 191-193.
Notes on several injurious insects.
602. FYLES, T. W. Notes on the season of 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario, f. 1899 (1900), pp. 102-106, 1 fig.
603. G——, T. B. The Scutellista mite. <Rural Californian, August, 1904.
604. GARCIA, F. Spraying orchards for the codling moth. <Bull. No. 41, New Mexico Agric. Exp. Sta., July, 1902, pp. 26, 3 pls.
605. GARMAN, H. Enemies of cucumbers and related plants. <Bull. No. 91, Kentucky Agric. Exper. Station, March, 1901, pp. 1-56, 15 figs.
606. GARMAN, H. The food of the toad. <Bull. No. 91, Kentucky Agric. Exper. Station, March, 1901, pp. 60-68, 1 fig.
607. GARMAN, H. Diseases of nursery stock, with a list of inspected Kentucky nurseries. <Bull. No. 93, Kentucky Agric. Exper. Station, June, 1901, pp. 101-111.
608. GARMAN, H. The Hessian fly. <Bull. No. 96, Kentucky Agric. Exper. Station, November, 1901, pp. 193-198.
609. GARMAN, H. Dangerous mosquitoes in Kentucky. <Bull. No. 96, Kentucky Agric. Exper. Station, November, 1901, pp. 199-215, 1 pl.
610. GARMAN, H. Hessian fly experiments. <Bull. No. 103, Kentucky Agric. Exper. Station, December, 1902, pp. 231-244.
611. GARMAN, H. Seventeen-year locusts in Kentucky. <Bull. No. 107, Kentucky Agric. Exper. Station, 1903, pp. 81-100, 4 pls., 3 figs.
612. GARMAN, H. Insects injurious to cabbage. <Bull. 114, Kentucky Agric. Exper. Station, June, 1904, pp. 15-47, 17 figs.
613. GARMAN, H. On an injury to fruits by insects and birds. <Bull. No. 116, Kentucky Agric. Exper. Station, December, 1904, pp. 63-78, 7 pls.

614. GARMAN, H. The apple-tree measuring worm. <Bull. No. 116, Kentucky Agric. Exp. Station, December, 1904, pp. 79-81, 2 pls.
615. GEDDINGS, H. D. The fly and the mosquito as carriers of disease. <Ohio Sanitary Bull. No. 7, 1903, pp. 31-39.
616. GIBSON, A. Notes on insects of the year. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 97-98, 2 figs.
617. GIBSON, A. Notes on *Semiophora youngii* Smith. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 79-80.
618. GIBSON, A. An interesting enemy of the iris. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 49-50.
619. GIBSON, A. Basswood, or linden insects. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 50-61, 10 figs.
620. GILLETTE, C. P. Objects of the Association of Economic Entomologists. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 5-15.
621. GILLETTE, C. P. Entomological notes from Colorado. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 76-80.
622. GILLETTE, C. P. Report of the entomologist. <13th Ann. Rept. Colo. Agric. Exp. Sta. f. 1900 (1901), pp. 123-131. Notes on various insects.
623. GILLETTE, C. P. Mediterranean flour-moth infesting honeycombs. <Amer. Bee Journal, 1901, p. 247, 2 figs.
624. GILLETTE, C. P. How to fight the codling moth. <American Gardening, 1 June, 1901.
625. GILLETTE, C. P. Life history studies on the codling moth. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 5-20.
626. GILLETTE, C. P. Notes on some Colorado insects. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 51-55.
627. GILLETTE, C. P. Insects and insecticides. <Bull. No. 71, Colo. Agric. Exp. Sta., April, 1902, pp. 40, 27 figs. Brief accounts of many species.
628. GILLETTE, C. P. Number of broods of the codling moth as indicated by published data. <Entom. News, June, 1902, pp. 193-196.
629. GILLETTE, C. P. Insect enemies of the pear, peach, plum, and cherry. <Ann. Rept. Colorado State Board Hortic. f. 1901 (1902), pp. 55-77, 21 figs.
630. GILLETTE, C. P. What credit shall we give? <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 48-51.

631. GILLETTE, C. P. Some of the more important insects of 1903. <Bull. No. 94, Colorado Agric. Exp. Station, December, 1904, pp. 15, 2 pls., 1 map.
632. GIRAULT, A. A. *Anasa tristis* De G.; history of confined adults; another egg-parasite. <Entom. News, 1904, pp. 335-336.
633. GOFF, E. S. The bean weevil. <Wisconsin Agriculturist, 18 January, 1900.
634. GOFF, E. S. Striped blister beetle. <Wisconsin Agriculturist, 1 August, 1901, p. 9.
635. GOFF, E. S. San Jose scale. <Wisc. Agriculturist, 12 September, 1901, p. 9.
636. GOFF, E. S. Apple-tree bark-louse. <Wisc. Agriculturist, 1 May, 1902, p. 11.
637. GOFF, E. S. The box-elder bug. <Wisc. Agriculturist, 1 May, 1902, p. 11.
638. GOFF, E. S. Coal tar for plum curculio. <Wisc. Agric., 15 May, 1902, p. 11.
639. GOFF, E. S. The apple curculio: spraying for codling moth. <Wisc. Agriculturist, 29 May, 1902, p. 11.
640. GOFF, E. S. Elm-tree foliage pest: Remedy for squash bug. <Wisconsin Agriculturist, 12 June, 1902, p. 11.
641. GOODMAN, L. A. The moth catcher question. <Colman's Rural World, 8 May, 1901.
642. GOODMAN, L. A. Experience with dust spraying. <Rural New Yorker, 14 November, 1903.
643. GOSSARD, H. A. Some common Florida scales. <Bull. No. 51, Florida Agric. Exp. Station, January, 1900, pp. 107-128, 8 figs.
Notes on *Mytilaspis citricola* Pack., *M. gloveri* Pack., *Lecanium hesperidum* Linn., *L. oleæ* Bern. *L. hemi-sphæricum* Targ., *Ceroplastes floridensis* Comst., *C. cirripediformis* Comst., and *Dactylopius citri* Risso.
644. GOSSARD, H. A. The cottony cushion scale. <Bull. No. 56, Florida Agric. Exp. Station, May, 1901, pp. 311-356, 5 figs., 1 pl.
645. GOSSARD, H. A. Report of the entomologist. <Rept. Florida Agric. Exp. Sta. f. year ending 30 June, 1901 (1901), pp. 58-75.
646. GOSSARD, H. A. Nursery inspection. <Press Bull. No. 6, Fla. Agric. Exp. Station, August 15, 1901, 4 pp.
647. GOSSARD, H. A. Nursery inspection. <Press Bull. No. 7, Fla. Agric. Exp. Station, 1 September, 1901, pp. 4.

648. GOSSARD, H. A. A review of the white-fly investigations, with incidental problems. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 68-74.
649. GOSSARD, H. A. Two peach scales. <Bull. No. 61, Florida Agric. Exp. Station, July, 1902, pp. 473-498, 4 pls.
Treats of *Aspidiotus perniciosus* Comst. and *Diaspis pentagona* Targ.
650. GOSSARD, H. A. Report of committee on entomology. <Trans. Florida Hortic. Soc. f. 1902 (1902), pp. 101-105.
651. GOSSARD, H. A. Hessian fly and wheat midge. <Nebraska Farmer, 29 September, 1904.
652. GOULD, H. P. Kerosene for San Jose scale. <Amer. Gardening, 2 March, 1901, p. 151.
653. GOULD, H. P. Kerosene for San Jose scale. <Colman's Rural World, 27 March, 1901, p. 99.
654. GOULD, H. P. Suggestions about combating the San Jose scale. <Bull. No. 73, Maryland Agric. Exp. Station, April, 1901, pp. 153-166, 2 figs.
655. GOULD, H. P. Invasion of tent-caterpillars. <Amer. Agric., 3 May, 1902, p. 619.
656. GRANT, C. E. Report on insects of the year. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), p. 19.
657. GREEN, E. C. Insect enemies of tree and fruit and how to control them. <Trans. Ill. Hortic. Soc. f. 1900 (May, 1901), pp. 114-125.
658. GREEN, W. J. Disparene. <Ohio Farmer, 30 May, 1901, p. 471.
659. GREEN, W. J. Spraying for the San José scale louse. <Press Bull. No. 234, Ohio Agric. Exp. Sta., 31 March, 1902.
660. GREEN, W. J., and A. D. SELBY. Calendar for treatment of plant diseases and insect pests. <Bull. No. 147, Ohio Agric. Exp. Station, January, 1904, pp. 41-53.
661. GREGORY, J. J. H. Conquering the onion maggot. <Amer. Agriculturist, 30 March, 1901, p. 476.
662. GREGSON, P. B. Entomology to the agriculturist. <Farmer's Advocate, 1 May, 1900, p. 265; 15 May, 1900, p. 300.
663. GREGSON, P. B. Habits of the larvæ of *Dermestes talpinus* Mann. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 84-85, 1 fig.
664. GREINER, T. Tobacco dust as an insecticide. <Rural New Yorker, 25 October, 1902, p. 717.

665. GRIFFIN, H. H. Cantaloupes. <Bull. No. 62. Agric. Expt. Station, Colorado, April, 1901, pp. 16-18.
Notes on insects affecting cantaloupes.
666. HACHENBERG, G. T. Treatment of the boll weevil. <Texas Stockman and Farmer, 14 October, 1903.
667. HALE, G. H. White grubs in lawn. <Amer. Gardening, 1 February, 1902, p. 75.
668. HALE, J. H. J. H. Hale on peach borers. <Green's Fruit Grower, 1904, p. 23.
669. HALL, G. P. Fumigation *vs.* spraying. <California Cultivator, 23 March, 1900, pp. 182-183.
670. HALL, J. V., R_____, A. E., and W_____, S. R. Do bees damage fruit. <Rural New Yorker, 17 November, 1900, p. 768.
671. HALL, W. B. Outwitting the Hessian fly. <Amer. Agric., 1 November, 1900, p. 424.
672. HAND, C. N. The cause and prevention of malaria. <California Cultivator, 1 June, 1900, p. 343-344.
673. HARCOURT, R. Insecticides. <Rept. Ontario Agric. College and Expt. Farm. f. 1903 (1904), pp. 43-45.
674. HARRINGTON, A. Sprayings *vs.* moth catchers. <Colman's Rural World, 8 May, 1901, p. 145.
675. HARRINGTON, W. H. Notes on insects of the year. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 94-96, 2 figs.
676. HARRINGTON, W. H. Note on insects injurious to pines. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 114-117, 3 figs.
677. HART, C. A. Synopsis of insect collections for distribution to Illinois high schools; Lepidoptera. <Urbana, 1903, pp. 64, 74 figs.
678. HARTZELL, B. Kill insects in winter quarters. <Colman's Rural World, 6 February, 1901, p. 43.
679. [HARTZOG, H. S.] The San Jose scale, with a few suggestions for its treatment. <Bull. No. 65, S. C. Agric. Exp. Sta., July, 1901, pp. 12.
680. HARVEY, F. L. Notes on insects of the year 1899. <Sixteenth Annual Report of the Maine Agric. Exp. Station, pp. 31-42, 1900.
Notes on various species.
681. HARWARD, W. Insectivorous habits of lizards. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 96-97.
682. HAUPT, W. W. The boll weevil. <Texas Stockman and Farmer, 28 January, 1903.

683. HAVENHILL, M. Enemies of the currant. <American Agriculturist, 14 May, 1904, p. 555.
684. HAVENS, F. G. Insect control in Riverside, California. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 83-88.
685. HAYWOOD, J. K. The adulteration and analysis of the arsenical insecticides. <Journ. Amer. Chemical Society, xxii, September, 1900.
686. HAYWOOD, J. K. Insecticides and fungicides: chemical composition and effectiveness of certain preparations. <Farmers Bull. No. 146, U. S. Dept. Agric., January, 1902, pp. 14.
687. HAYWOOD, J. K. Soluble arsenic and arsenical insecticides. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 51-54.
688. HAYWOOD, J. K. Insecticide studies. <Bull. No. 76, Bur. Chem., U. S. Dept. Agric., July, 1903, pp. 63.
689. HAYWOOD, J. K. Paris green spraying experiments. <Bull. No. 82, Bur. of Chem., U. S. Dept. Agric., May, 1904, pp. 32, 2 pls.
690. HEMENWAY, H. D. Experiments with hydrocyanic acid gas as a means of exterminating mealy bugs and other insects in greenhouses. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 69-78.
691. HERRICK, G. W. Report of the botanist and entomologist. <Miss. Sta. Rept. f. 1901 (1902), pp. 26-28.
Notes on insects injuring pecans, and on mosquitoes, and horn-fly.
692. HERRICK, G. W. Measures for the decrease of malaria in the South. <Proc. Fourth Ann. Convention Cotton States Assoc. of the Commiss. of Agriculture, Raleigh, N. C., 1902, pp. 37-44.
693. HERRICK, G. W. Notes on the life-history and habits of *Oncidères texana* Horn. <Journ. N. Y. Ent. Soc., 1902, pp. 15-20.
694. HERRICK, G. W. The Colorado potato-beetle. <Bull. No. 81, Mississippi Agric. Exp. Station, 1903, pp. 8, figs. 5.
695. HERRICK, G. W. Report of the entomologist. <Rept. Mississippi Agric. Exp. Station f. 1903 (1904), pp. 24-25.
696. HERRICK, G. W. Insects injurious to pecans. <Bull. No. 86, Miss. Agric. Exp. Station, November, 1904, pp. 42, 24 figs.
697. HICKMAN, R. W. Description and treatment of scabies in cattle. <Bull. No. 40, Bur. Animal Industry, U. S. Dept. Agric., 1902, pp. 23, 15 figs.
Deals with *Psoroptes communis* Fürst., var. *bovis* and *Chorioptes symbiotes* Verheyen, var. *bovis*.

698. HINDS, W. E. Fumigation with carbon bisulphide. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 78-82.
699. HINDS, W. E. Life history of the salt-marsh caterpillar (*Estigmene acræa* Dru.) at Victoria, Tex. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 80-84, 1 fig.
700. HINE, J. S. Notes on Ohio insects injurious to stored vegetable products. <Journ. Columbus Hortic. Soc., vol. 14, f. 1899 (1900), pp. 120-121.
701. HINE, J. S. Observations on insects. <Ohio Naturalist, II, pp. 169-170, December, 1901.
702. HINE, J. S. Insects beneficial to horticulturists. <Proc. Columbus Hortic. Soc. f. 1901 (1902), pp. 26-29.
703. HINE, J. S. Orchard insects. <Proc. Columbus Hortic. Soc., vol. 17, December, 1902, pp. 129-132.
704. HINE, J. S. Some economic considerations with reference to the Tabanidæ. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 23-25.
705. HINE, J. S. Insects injurious to stock in the vicinity of the Gulf Biologic Station. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 57-60.
706. HINE, J. S. A note on insects as scavengers and as parasites of other insects. <Journ. Columbus Hort. Soc. f. 1904, December, 1904, p. 123-128.
707. HINKLEY, A. A. Experience with the dust spray. <Trans. Ill. Hortic. Soc. f. 1901 (1902), pp. 219-220.
708. HODGKISS, H. E. The life history and treatment of a common palm scale. <Rept. Mass. Agric. Coll., 1904, pp. 12, 2 pls.
709. HOLMES, H. H. Daylight fumigation. <Pacific Rural Press, 22 June, 1901.
710. HOOVER, W. W. Notes on an elm leaf case-bearer, *Coleophora limosipennella* Dup. <Entom. News, 1904, pp. 54-56, 1 fig.
711. HOPKINS, A. D. The Hessian fly in West Virginia and how to prevent its losses. <Bull. No. 67, W. Virginia Agric. Exp. Sta., August, 1900, pp. 239-250, 2 pls., 1 map.
712. HOPKINS, A. D. The periodical cicada or seventeen-year locust in West Virginia. <Bull. No. 68, W. Va. Agric. Exp. Sta., September, 1900, pp. 259-330, 3 pls.
A revision of Bull. No. 50.
713. HOPKINS, A. D. Report on examination of wheat stubble from different sections of the State. <Bull. No. 69, W. Va. Agric. Exp. Sta., October, 1900, pp. 333-344.

714. HOPKINS, A. D. The joint worm in wheat. *<Bull. No. 69, W. Va. Agric. Exp. Sta., October, 1900, pp. 345-347, 1 pl.*
715. HOPKINS, A. D. Insect enemies of the spruce in the Northeast. *<Bull. No. 28, n. s., Div. Entom., U. S. Dept. Agric., October, 1901, pp. 1-48, 2 figs., 15 pls.*
716. HOPKINS, A. D. Circular of warning. *<W. Va. Agric. Exp. Sta., 15 October, 1901, 1 p., 1 map.*
Relating to the 1902 swarm of the periodical Cicada.
717. HOPKINS, A. D. Insect enemies of forests and forest products. *<The Forester, 1901, p. 250-254, 5 figs.*
718. HOPKINS, A. D. Insects detrimental and destructive to forest products used for constructing material. *<Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 60-62.*
719. HOPKINS, A. D. Insect enemies of the pine in the Black Hills forest reserve. *<Bull. No. 32, n. s., Div. Entom., U. S. Dept. Agric., April, 1902, pp. 24, pls. vii, figs. 5.*
720. HOPKINS, A. D. What to do with locusts. *<Rural New Yorker, 17 May, 1902, p. 351.*
721. HOPKINS, A. D. Some insect enemies of living trees. *<Proc. 22d Ann. Meet. Soc. Prom. Agric. Science, pp. 66-69 (1902).*
722. HOPKINS, A. D. On the study of forest entomology in America. *<Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 5-28.*
723. HOPKINS, A. D. The powder post beetle. *<Amer. Agriculturist, 15 November, 1902. <New England Homestead, 1 November, 1902.*
724. HOPKINS, A. D. Insect enemies of the redwood. *<Bull. No. 38, Bur. Forestry, U. S. Dept. Agric., March, 1903, pp. 32-40, 4 figs.*
725. HOPKINS, A. D. Some of the principal insect enemies of coniferous forests in the United States. *<Yearbook, Dept. Agric. f. 1902 (July, 1903), pp. 265-282, 10 figs., 2 pls.*
726. HOPKINS, A. D. Powder post injury to seasoned wood products. *<Cir. No. 55, Div. Ent., U. S. Dept. Agric., December, 1903, 5 pp., 1 fig.*
- 726a. HOPKINS, A. D. Methods of work and some results in forest insect investigations. *<Proc. 17th Ann. Conv. Amer. Agric. Coll. and Exp. Stations; Bull. No. 142, Off. Exp. Sta., Dept. Agric., 1904, pp. 180-182.*
727. HOPKINS, A. D. Catalogue of insect enemies of forests and forest products, at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. *<Bull. No. 48, Div. Entom., U. S. Dept. Agric., pp. 56, 22 pls.*
St. Louis Exhibit.

728. HORSFALL, T. Orchard enemies. <Bull. No. 9. Missouri Fruit Exp. Station, 1904, pp. 31, 17 figs.
729. HOUGHTON, C. O. Enemies of the San Jose scale. <Orange Judd Farmer, 29 August, 1903. <American Agriculturist, 22 August, 1903, p. 148.
730. HOUGHTON, C. O. An unusual injury by the snowy tree-cricket and notes on its feeding habits. <Entom. News. 1904, pp. 57-61.
731. HOWARD, L. O. The two most abundant Pulvinarias on maple. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 7-23, 17 figs.
732. HOWARD, L. O. The insects to which the name "Kissing Bug" became applied during the summer of 1899. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 24-30, 7 figs.
733. HOWARD, L. O. A Dipterous enemy of cucurbits in the Hawaiian Islands. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 93-94.
Note on *Dacus cucurbitæ* Coq.
734. HOWARD, L. O. A troublesome twig-girdler of the Southwest. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 94-95.
Note on *Oncideres putator* Thom.
735. HOWARD, L. O. A cotton stainer in Peru. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 100.
736. HOWARD, L. O. A new western enemy of the Colorado potato beetle. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 102-103.
737. HOWARD, L. O. Notes on miscellaneous insects in Kansas. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 103.
738. HOWARD, L. O. An embarrassing feature of foreign interdiction against American plants and fruits. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 103-104.
739. HOWARD, L. O. The green June beetle of the Southwest. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 104.
740. HOWARD, L. O. Reported injury by giant Scarabæid beetles. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 105.
741. HOWARD, L. O. Locusts in Argentina and Lourenço Marquez, Southeastern Africa. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 105-106.

742. HOWARD, L. O. Nocturnal flight of grasshoppers. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 106.
743. HOWARD, L. O. A new clothes-moth remedy. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, p. 106.
744. HOWARD, L. O. Notes from correspondence. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 107-109.
745. HOWARD, L. O. The present status of the caprifig experiments in California. <Proc. Amer. Pomol. Soc., 1899 (May, 1900), pp. 27-32.
746. HOWARD, L. O. Notes on the mosquitoes of the United States. <Bull. No. 25, n. s., Div. Ent., U. S. Dept. Agric., August, 1900, pp. 70, figs. 22.
747. HOWARD, L. O. How to distinguish between the different mosquitoes of North America. <Circ. No. 40, s.s., Div. Entom., U. S. Dept. Agric., 1900, 8 pp., 4 figs.
748. HOWARD, L. O. Regulations of foreign governments regarding importation of American plants, trees, and fruits. <Cir. No. 41, s. s., Div. Ent., U. S. Dept. Agric., September, 1900, 4 pp.
749. HOWARD, L. O. Establishment of a new beneficial insect in California. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 16-17.
Introduction of *Scutellista cyanea* Mots.
750. HOWARD, L. O. Beneficial work of *Hyperaspis signata* Oliv. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 17-18, 1 fig.
Feeding on Pulvinaria.
751. HOWARD, L. O. Remarks on *Psorophora ciliata* Desv., with notes on its early stages. <Can. Entom., December, 1900, pp. 353-357, 3 figs.
752. HOWARD, L. O. A contribution to the study of the insect fauna of human excrement, with especial reference to the spread of typhoid fever by flies. <Proc. Wash. Acad. Science, December, 1900, pp. 541-600, 2 pls., 22 figs.
753. HOWARD, L. O. On some Diptera bred from cow-manure. <Can. Entom., February, 1901, pp. 42-44.
754. HOWARD, L. O. To destroy the imported elm bark-louse. <Meahan's Monthly, May, 1901.
755. HOWARD, L. O. Fighting the borers. <American Gardening, 22 June, 1901, p. 448.
756. HOWARD, L. O. The carriage of disease by flies. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 39-45, 6 figs.

757. HOWARD, L. O. On the habits of *Entilia sinuata* Fab. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 75-78, 2 figs.
758. HOWARD, L. O. Ichneumonoid parasites of the sugar-cane borers in the island of Reunion. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 82, 1 fig.
759. HOWARD, L. O. Insects from British Honduras. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 82-83.
760. HOWARD, L. O. Notes from the Philippines. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 83.
761. HOWARD, L. O. Miscellaneous notes from Kansas. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 84-85.
762. HOWARD, L. O. Unusual injury by cutting ants in Texas. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agr., October, 1901, p. 85.
763. HOWARD, L. O. The Angoumois grain moth in Pennsylvania. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 86-87.
764. HOWARD, L. O. The use of sulphur as a remedy for the Indian meal moth. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 88.
765. HOWARD, L. O. Singular instances of attack on human beings by insects. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 90.
766. HOWARD, L. O. Efficiency of the two-spotted lady-bird as a plant-louse destroyer. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 90.
767. HOWARD, L. O. The "overflow bug" again. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 90-91.
768. HOWARD, L. O. A remedy for flea-beetles in California vineyards. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 91.
769. HOWARD, L. O. Ineffectiveness of kerosene emulsion against white grubs. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 92.
770. HOWARD, L. O. A new enemy to figs in Mexico. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 93.
771. HOWARD, L. O. On the food habits of the papabotte. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 93.

772. HOWARD, L. O. On the insectivorous habits of squirrels. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 94.
773. HOWARD, L. O. Insect injury to binding twine. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 94.
774. HOWARD, L. O. To rid cats of fleas. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 94-95.
775. HOWARD, L. O. A new remedy against Phylloxera. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 95.
776. HOWARD, L. O. A note on the glassy-winged sharpshooter. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 95.
777. HOWARD, L. O. On the alleged immunity of redwood to attack by termites. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 95-96.
778. HOWARD, L. O. The bran-arsenic mash against grasshoppers in Texas. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 96.
779. HOWARD, L. O. Termites in Mexico. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 96.
780. HOWARD, L. O. An entomological service in Mexico. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, p. 96.
781. HOWARD, L. O. Notes from correspondence. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 97-98.
782. HOWARD, L. O. Smyrna fig culture in the United States. <Yearbook, U. S. Dept. Agric. f. 1900 (1901), pp. 79-106, 7 figs., 7 pls.
783. HOWARD, L. O. Mosquitoes; how they live; how they carry disease; how they are classified; and how they may be destroyed. <New York, 1901, pp. 241, 50 figs.
784. HOWARD, L. O. Hydrocyanic-acid gas against household insects. < Cir. No. 46, s. s., Div. Entom., U. S. Dept. Agric., June, 1902, pp. 4.
785. HOWARD, L. O. Erroneous belief that common native insects are introduced from abroad in seed. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, p. 90.
786. HOWARD, L. O. Capture and possible introduction of the nun moth in America. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 90-91.
787. HOWARD, L. O. Occurrence of the Mediterranean flour moth in Minnesota, Wisconsin, and Michigan. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 92-93.

788. HOWARD, L. O. The Angoumois grain moth in 1901. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 93-94.
789. HOWARD, L. O. Recent injury by the cigarette beetle. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 94-96.
790. HOWARD, L. O. The Colorado potato beetle in the South. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 100-101.
791. HOWARD, L. O. The rice weevil an important factor in the failure of germination of corn in the South. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 101-102.
792. HOWARD, L. O. The Sandwich Island sugar-cane borer again. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 102-104, 2 figs.
793. HOWARD, L. O. Umbrella ants in Cuba. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, p. 104.
794. HOWARD, L. O. The Gage bug. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 104-105.
795. HOWARD, L. O. Stoppage of electric lights by insects. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, p. 107.
796. HOWARD, L. O. A variety of wheat said to be immune from Hessian fly. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, p. 107.
797. HOWARD, L. O. A western cricket in Oregon. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 107-108.
798. HOWARD, L. O. Notes from correspondence. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 108-110.
799. HOWARD, L. O. How insects affect health in rural districts. <Farmers' Bull. No. 155, U. S. Dept. Agric., 1902, pp. 19, 16 figs.
800. HOWARD, L. O. Report of the entomologist for 1903. <Ann. Rept., Dept. Agric., 1903, pp. 227-243.
801. HOWARD, L. O. The status of the chalcid parasite *Syntomosphyrum esuris* Riley. <Proc. Ent. Soc. Wash., V, pp. 138-139, 1903.
802. HOWARD, L. O. The transmission of yellow fever by mosquitoes. <34th Ann. Rept. Ent. Soc. Ont., f. 1903 (1904), pp. 26-30.

803. HOWARD, L. O. Recent work in American economic entomology. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 38-40.
804. HOWARD, L. O. Some injurious garden and field insects in tropical North America. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 84.
805. HOWARD, L. O. Remedy for stored grain insects in Cuba. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 84-85.
806. HOWARD, L. O. Beetles injurious to herbarium fungi. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 85.
807. HOWARD, L. O. A West Indian fruit-tree borer. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 85-86.
808. HOWARD, L. O. Say's plant bug. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 86.
809. HOWARD, L. O. Aquatic bugs of commercial value as food. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 86-87.
810. HOWARD, L. O. Identity of a Tingitid found on chrysanthemum. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 89.
811. HOWARD, L. O. Carbon bisulphid for red ants and white grubs. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 90.
812. HOWARD, L. O. *Agonoderus pallipes* Fab., a permanent enemy of sprouting corn. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 90.
813. HOWARD, L. O. Anthrenus destroying tussock moth eggs. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 90-91.
814. HOWARD, L. O. Abundance of the rhinoceros beetle in South Carolina. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 91.
815. HOWARD, L. O. The length of the fiber in the cocoon of the domestic silk worm. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 91.
816. HOWARD, L. O. The quail as a destroyer of cutworms. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 92.
817. HOWARD, L. O. Effect of the bite of a midge on a human being. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 92.
818. HOWARD, L. O. Lights against the imported cabbage webworm. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 93.

819. HOWARD, L. O. Tobacco for thousand-legged worms. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 93.
820. HOWARD, L. O. Hair worms in cabbage. <Bull. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 93-95.
821. HOWARD, L. O. On remedies for garden snails. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 96-97.
822. HOWARD, L. O. Extracts from correspondence. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 90-99.
823. HOWARD, L. O. The Mexican cotton-boll weevil. <Amer. Mo. Rev. of Reviews, 1904, pp. 188-191, 4 figs.
824. HOWARD, W. L. The grape Phylloxera. <Colman's Rural World, 22 February, 1900.
825. HOYT, A. M. The Putnam scale. <Farm, Field and Fireside, 3 February, 1900.
826. HUESTED, P. L. Insect and fungous pests. Late fumigation of nursery trees. <Amer. Agriculturist, 15 November, 1902, 1 fig.
827. HUME, H. H. Sooty mold of orange. <Bull. No. 53, Fla. Agric. Exp. Sta., March, 1900, pp. 161-167, 1 fig.
Means for destruction of white-fly.
828. HUME, H. H. Cauliflower. <Bull. No. 59, Florida Agric. Exp. Sta., October, 1901, pp. 436-438.
Notes on the insects infesting cauliflowers.
829. HUMPHREYS, P. W. Controlling the walnut caterpillar. <American Agriculturist, 23 August, 1902, p. 172.
830. HUNNAM, E. C. The warble fly. <Texas Stockman and Farmer, 21 August, 1901, p. 6.
831. HUNT, Wm. Rose pests. <34th Ann. Rept. Fruit Growers' Assn., Ontario, 1902 (1903), pp. 167-168.
832. HUNTER, S. J. Alfalfa culture and insect life. <Kansas Farmer, 25 January, 1900, pp. 87, 90.
Notes on grasshoppers.
833. HUNTER, S. J. Hunter on the apple worm. <Kansas Farmer, 3 January, 1901.
834. HUNTER, W. D. An investigation to determine whether *Melanoplus spretus* Thos. breeds permanently in the Turtle Mountains in North Dakota. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 30-37.
835. HUNTER, W. D. Additions to the list of clover and alfalfa insects published in the 1898 report. <Ann. Rept. Nebraska State Board of Agric., 1899 (1900), p. 142.
836. HUNTER, W. D. The periodical Cicada in 1902. < Cir. No. 44, s. s., Div. Ent., U. S. Dept. Agric., 13 March, 1902, pp. 4.

837. HUNTER, W. D. The probability of the occurrence of the Mexican cotton-boll weevil in Brazil. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 105-106.
838. HUNTER, W. D. The St. Andrew's cotton stainer. <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 106-107.
839. HUNTER, W. D. Methods of controlling the boll weevil. <Farmers' Bull. No. 163, U. S. Dept. Agric., January, 1903.
840. HUNTER, W. D. Has the boll weevil left portions of Texas. <Texas Stockman and Farmer, 26 August, 1903.
841. HUNTER, W. D. Information concerning the Mexican cotton-boll weevil. <Farmers' Bull. No. 189, U. S. Dept. Agric., January, 1904, pp. 29, 8 figs.
842. HUNTER, W. D. The most important step in the cultural system of controlling the boll weevil. < Cir. No. 56, Bur. Entom., U. S. Dept. Agric., October, 1904, pp. 7.
843. HUNTER, W. D. Controlling the boll weevil in cotton seed and at ginneries. <Farm. Bull. No. 209, U. S. Dept. Agric., October, 1904, pp. 31, 1 fig.
844. HUNTER, W. D., and W. E. HINDS. The Mexican cotton-boll weevil. <Bull. No. 45, Div. Ent., U. S. Dept. Agric., 1904, pp. 116, 15 pls., 6 figs.
845. HUNTER, W. D., and others. Proceedings of the boll-weevil convention in New Orleans. <Bur. Agric. and Immig., New Orleans, 1903, pp. 91.
846. HUSMANN, G. The grasshoppers. <Pacific Rural Press, 5 July, 1902, p. 6.
847. HUSMANN, G. That vine hopper. <Pacific Rural Press, 30 August, 1902, p. 132.
848. HUSTED, D. B. Hessian fly observations. <Ohio Farmer, 20 June, 1901.
A previous article on this in number for April 23.
849. HUTT, W. N. Asparagus beetles. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 71-73, 2 figs.
850. INGHAM, J. W. The enemies of the orchard—the borer. <Southern Planter, 15 February, 1902, pp. 84-85.
851. INNIS, A. C. Kerosene and San Jose scale. <Rural New Yorker, 7 September, 1901, p. 610.
852. IRBY, B. Corn culture in North Carolina. <Bull. No. 171, N. C. Agric. Exp. Sta., May, 1900, pp. 24-43.
Contains a short note on protection from weevils and moths.
853. IRVINE, W. A. To destroy chinch bugs. <Trans. Missouri Hortic. Soc. f. 1899 (1900), p. 406.

855. ISAACS, J. Pests and diseases of deciduous fruits. <Calif. Fruit Grower, 16 May, 1903.
856. ISAACS, J. Pests and diseases of citrus fruits. <Rural Calif., June, 1903.
857. ISAACS, J. Fighting pests with parasites. <Farm, Field and Fireside, 19 September, 1903.
858. JARVIS, T. D. Fly tormentors of New Ontario. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 82-84, 1 map.
859. JARVIS, T. D. Notes on injurious insects of the Abitibi region. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 100-101.
860. JENKINS, E. H., W. E. BRITTON, et al. The protection of shade trees in towns and cities. <Bull. No. 131, Conn. Agric. Exp. Sta., November, 1900, pp. 30, pls. ix.
Notes on insect pests and remedies.
861. JOHNSON, H. P. A study of certain mosquitoes in New Jersey, and a statement of the mosquito-malaria theory. <Rept. Entom. Dept. N. J. Agric. Exp. Station for 1902 (1903), pp. 559-593.
862. JOHNSON, W. G. The use of hydrocyanic acid gas. <Rural New Yorker, 6 January, 1900, p. 1; 20 January, 1900, p. 33.
863. JOHNSON, W. G. The destructive green pea louse. <The Canner and Dried Fruit Packer, February, 1900, pp. 40-43.
864. JOHNSON, W. G. Killing insects in a mill. <Rural New Yorker, 31 March, 1900, p. 223, 1 fig.
Treats of killing roaches.
865. JOHNSON, W. G. The new peach mite. <Entom. News, May, 1900, p. 471.
866. JOHNSON, W. G. The green pea louse in Maryland. <American Gardening, 2 June, 1900.
867. JOHNSON, W. G. The destructive green pea louse. <Rural New Yorker, 4 August, 1900, pp. 525-526, 2 figs.
868. JOHNSON, W. G. Fall treatment of trees infested with the San Jose scale. <Cir. No. 26, Maryland State Hortic. Dept., 3 October, 1900, 4 pp., 4 figs.
869. JOHNSON, W. G. Notes upon the destructive green pea louse (*Nectarophora destructor* Johns.) for 1900. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 55-58, 2 pls.
870. JOHNSON, W. G. *Aphelinus fuscipennis* How., an important parasite upon the San Jose scale in Eastern United States. <Bull. No. 26, n. s., Div. Ent., U. S. Dept Agric., October, 1900, pp. 73-75.

871. JOHNSON, W. G. Notes on insects of economic importance for 1900. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 80-84.
872. JOHNSON, W. G. San Jose scale. <Amer. Gardening, 17 November, 1900.
873. JOHNSON, W. G. The peach borer. <Country Gentleman, 22 November, 1900, p. 949.
874. JOHNSON, W. G. Fumigation for scaly bark-lice. <Rural New Yorker, 15 December, 1900, p. 832.
875. JOHNSON, W. G. Points about winter spraying. <Amer. Agriculturist, 29 December, 1900, p. 677, 1 fig.
876. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXIX. <Amer. Miller, 1900, p. 292.
877. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXX. <Amer. Miller, 1900, pp. 385-386.
878. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXI. <Amer. Miller, 1900, p. 526, 2 figs.
879. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXII. <Amer. Miller, 1900, pp. 692-693.
880. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXIII. <Amer. Miller, 1900, pp. 848-849, 3 figs.
881. JOHNSON, W. G. The destructive green pea louse. <Rural New Yorker, 12 January, 1901, p. 17, 1 fig.
882. JOHNSON, W. G. Green pea industry threatened. <Amer. Agriculturist, 9 February, 1901, p. 202, 2 figs.
883. JOHNSON, W. G. Effect of gas on nursery stock. <Amer. Agriculturist, 9 March, 1901, p. 362, 3 figs.
884. JOHNSON, W. G. Important enemy of the San Jose scale. <Amer. Agriculturist, 16 March, 1901, p. 398, 1 fig.
Note on *Aphelinus fuscipennis* How.
885. JOHNSON, W. G. Emory fumigator for fruit trees. <Amer. Agriculturist, 23 March, 1901, p. 432, 2 figs.
886. JOHNSON, W. G. More about fumigation. <Orange Judd Farmer, 30 March, 1901.
887. JOHNSON, W. G. The grain aphid doing great damage to wheat and oats in Texas. <The Weekly Modern Miller, 6 April, 1901, p. 13, 3 figs.
Notes on *Nectarophora arenae* Fab.
888. JOHNSON, W. G. Timely notes on asparagus beetle. <American Agriculturist, 11 May, 1901, p. 648.

889. JOHNSON, W. G. An enemy to young tobacco. <American Agriculturist, 25 May, 1901, p. 708, 1 fig.
Note on *Crambus* sp.
890. JOHNSON, W. G. Effective protection against cutworms. <Amer. Agriculturist, 1 June, 1901, p. 733.
891. JOHNSON, W. G. The menace of scale pests. <Amer. Agriculturist, 15 June, 1901, p. 785.
892. JOHNSON, W. G. Serious pest to strawberry crop. <Amer. Agriculturist, 15 June, 1901, p. 788, 1 fig.
Notes on *Anthonomus signatus* Say.
893. JOHNSON, W. G. Controlling the cantaloupe louse. <American Agriculturist, 22 June, 1901, p. 808.
894. JOHNSON, W. G. Sure remedy for peach tree borers. <American Agriculturist, 6 July, 1901, p. 5.
Use of gas-tar.
895. JOHNSON, W. G. Timely warning to fruit growers. <American Agriculturist, 13 July, 1901, p. 32, 1 fig.
Notice of coming brood of seventeen-year Cicada.
896. JOHNSON, W. G. Trapping and destroying chinch bugs. <American Agriculturist, 13 July, 1901, p. 36, 1 fig.
897. JOHNSON, W. G. Controlling the elm leaf beetle. <Amer. Agric., 3 August, 1901, p. 105.
898. JOHNSON, W. G. The Hessian fly and fall wheat. <Amer. Agric., August 24, 1901, p. 174, 1 fig.
899. JOHNSON, W. G. Controlling a serious cabbage pest. <Amer. Agric., August 31, 1901, p. 192.
Remedies for *Murgantia histrionica* Hahn.
900. JOHNSON, W. G. Fall trapping the Hessian fly. <Amer. Agric., September 7, 1901, p. 215.
901. JOHNSON, W. G. Successfully combating apple-tree borers. <Amer. Agric., September 7, 1901, p. 220, 1 fig.
902. JOHNSON, W. G. Destroying weevil in grain. <Amer. Agriculturist, 14 September, 1901, p. 240.
903. JOHNSON, W. G. Destroying cabbage-worms. <Amer. Agric., 21 September, 1901, p. 264, 1 fig.
904. JOHNSON, W. G. Detecting San Jose scale on fruit. <Amer. Agriculturist, 28 September, 1901, p. 290.
905. JOHNSON, W. G. Treatment of scale-infested trees. <American Agriculturist, 16 November, 1901, p. 492.
906. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXIV. <Amer. Miller, 1901, p. 33, 2 figs.
907. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXV. <Amer. Miller, 1901, p. 455.

908. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXVI. <Amer. Miller, 1901, p. 862.
909. JOHNSON, W. G. Cheap remedy for San Jose scale. <American Agriculturist, 8 February, 1902, p. 195.
910. JOHNSON, W. G. Protecting the green pea crop from insects. <American Agriculturist, 26 April, 1902, p. 584.
911. JOHNSON, W. G. Insect warfare in peach orchards. <American Agriculturist, 26 April, 1902, p. 588, 1 fig.
912. JOHNSON, W. G. Spraying tomatoes for blight and insects. <American Agriculturist, 17 May, 1902, p. 673.
913. JOHNSON, W. G. A destructive orchard pest. <American Agriculturist, 31 May, 1902, p. 726, 1 fig.
Notes on canker worms.
914. JOHNSON, W. G. Remedy for grape-root worm. <American Agriculturist, 7 June, 1902, p. 750, 2 figs.
915. JOHNSON, W. G. Successful warfare against chinch bugs. <American Agriculturist, 14 June, 1902, p. 772.
916. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXVII. <Amer. Miller, 1902, pp. 134-135.
917. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXVIII. <Amer. Miller, 1902, p. 466, 1 fig.
918. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XXXIX. <Amer. Miller, 1902, p. 649, 2 figs.
919. JOHNSON, W. G. San Jose scale and latest methods of treatment. <Rept. N. Y. State Fruit Grower's Assn. f. 1902, pp. 76-94, 13 figs.
920. JOHNSON, W. G. Fumigation methods. <New York, Orange Judd Co., 1902, pp. 313, figs. 83.
921. JOHNSON, W. G. Merits of the California wash. <American Agriculturist, 10 January, 1903, p. 44.
922. JOHNSON, W. G. The European pear scale. <American Agriculturist, 21 February, 1903, p. 212.
923. JOHNSON, W. G. The Mediterranean flour moth. <Can. Entom., 1903, p. 216.
924. JOHNSON, W. G. The Buffalo beetle a household pest. <American Agriculturist, 18 July, 1903, p. 57.
925. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XL. <Amer. Miller, 1903, p. 472.
926. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLI. <Amer. Miller, 1903, p. 556, 2 figs.

927. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLII. <Amer. Miller, 1903, p. 741, 1 fig.
928. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLIII. <Amer. Miller, 1903, p. 974, 4 figs.
929. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLIV. <Amer. Miller, 1904, p. 45.
930. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLIV (XLV?). <Amer. Miller, 1904, p. 489.
931. JOHNSON, W. G. Answers to queries and notes on insects injurious in mills. XLV (XLVI?). <Amer. Miller, 1904, p. 569.
932. JOHNSTON, J. Notes on insects of the year 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 40-41.
933. JOHNSTON, J. Notes on insects of the year. <32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902), pp. 27-28, 2 figs.
934. JONES, J. C. The Smyrna fig at Niles, California. <Pacific Rural Press, 2 November, 1901.
935. JONES, T. H. The apple tree borer and the remedy. <Farm, Field, and Fireside, July, 1901.
Opposes the uses of trap-lights.
936. JUDD, S. D. The relation of sparrows to agriculture. <Bull. No. 15, Div. Biol. Surv., U. S. Dept. Agric., 1901, pp. 98, figs. 19, 4 pls.
937. JUDD, S. D. Birds of a Maryland farm. <Bull. No. 17, Div. Biol. Survey, U. S. Dept. Agric., October, 1902, pp. 116.
Treats of the insect food of many birds.
938. JUDD, T., and others. The horticultural law of Utah. <Bull. No. 8, Utah State Hortic. Board, 1903, pp. 16.
939. K[EEESLING], H. G. The San José scale in California. <Rural New Yorker, 1 June, 1900, p. 382.
940. KEESLING, H. G. Killing canker worms in California: Experience with Paris green. <Rural New Yorker, 25 May, 1901.
<Pacific Rural Press, 4 May, 1901, p. 279.
941. KEFFER, C. A. San Jose scale. <Bull. Tenn. Agric. Exp. Station, Vol. XVI, No. 2, 1903, pp. 23-32, 9 figs.
942. KELLOGG, V. L. Notes on California Coccidæ, Aleurodidae, and Scolytidæ. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 83-84.
943. KELLY, H. A. Silkworm culture. <Farmers' Bull. No. 165, U. S. Dept. Agric., March, 1903, pp. 32, 16 figs.
944. KELLY, H. A. The culture of the mulberry silkworm. <Bull. No. 39, n. s., Div. Entom., U. S. Dept. Agric., March, 1903, pp. 32, figs. 15.

945. KIRKLAND, A. H. Canker worms. <Nature Leaflet No. 1, State Bd. Agric. Mass., March, 1900, pp. 3, 4 figs.
Treats of both species.
946. KIRKLAND, A. H. Tent caterpillars. <Nature Leaflet No. 2, State Bd. Agric. Mass., March, 1900, pp. 3, 4 figs.
Treats of *Clisiocampa americana* Fab. and *C. disstria* Hüb.
947. KIRKLAND, A. H. San Jose scale. <New England Farmer, 6 October, 1900.
Cautions against using petroleum.
948. KIRKLAND, A. H. The brown-tail moth in Massachusetts. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 75-76.
949. KIRKLAND, A. H. The shade-tree insect problem. <Rept. Mass. State Board Agric., 1901, pp. 77-107, 6 pls., 8 figs.
950. KIRKLAND, A. H. Notes on four imported pests. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 93-97.
951. KIRKLAND, A. H. The brown-tail moth in Massachusetts. <Trans. Mass. Hort. Soc. f. 1902, pt. 1, pp. 12-21 (December, 1902).
952. KIRKLAND, A. H. Usefulness of the American toad. <Farmers' Bul. No. 196, U. S. Dept. Agric., 1904, pp. 16.
953. KNOWLES, M. E. Sarcoptic scabies of the horse; psoroptic scabies of cattle in Montana. <Journ. Comp. Med. and Vet. Archives, Philad., October, 1900.
954. KOEBELE, A. Fuller's rose beetle in the Hawaiian Islands. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 88-90.
955. KOETHEN, E. L. Horticultural commissioners and inspectors. <Pacific Rural Press, 15 August, 1903.
956. LACKEY, S. G. The green bug. <Texas Farmer, 18 May, 1901, pp. 2-3.
Notes on *Siphonophora avenæ* Fab.
957. LACKEY, S. G. Oat lice. <Texas Farmer, 25 May, 1901, p. 4.
958. LAWRENCE, W. H. The raspberry cane-maggot. <Bull. No. 62, Wash. Agric. Exp. Station, 1904, pp. 13, 5 figs.
959. LAWRENCE, W. H. The raspberry root-borer, or the blackberry crown-borer. <Bull. No. 63, Wash. Agric. Exp. Station, 1904, pp. 15, 4 figs.
960. LAWRENCE, W. H. Three common insect pests of Western Washington. <Bull. No. 65, Wash. Agric. Exp. Station, 1904, pp. 14.

961. LELONG, B. M. Codling moth and spraying. <Calif. Fruit Grower, 24 April, 1900, p. 4.
962. LLOYD, J. W. Spraying for second brood of codling moth. <Trans. Ill. Hortic. Soc. f. 1901 (1902), pp. 451-459; also 385-386.
963. LLOYD, J. W. Controlling the second brood of the codling-moth. <Trans. Ill. State Hortic. Soc. f. 1902 (1903), pp. 98-102.
964. LOCHHEAD, W. The care of shade trees, II. <Canadian Horticulturist, March, 1900, pp. 95-100, 10 figs.
965. LOCHHEAD, W. The San Jose and other scale insects. <Ontario Dept. Agric., Toronto, March, 1900, pp. 48, figs 21.
966. LOCHHEAD, W. The San José scale act. <Farmer's Advocate, 15 March, 1900, p. 164.
967. LOCHHEAD, W. Asparagus beetles. <Canadian Horticulturist, May, 1900, pp. 192-193, 2 figs.
968. LOCHHEAD, W. The Hessian fly again. <Farmer's Advocate, 1 August, 1900, pp. 438-439.
969. LOCHHEAD, W. Notes on some insects of coniferous shade trees. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 60-64, 4 figs.
970. LOCHHEAD, W. Injurious insects of the orchard, garden, and farm, for the season of 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 66-71, 11 figs.
971. LOCHHEAD, W. Insects of the season of 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 72-75, 4 figs.
972. LOCHHEAD, W. The present status of the San José scale in Ontario. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, p. 87.
973. LOCHHEAD, W. The original home of the San Jose scale. <Canadian Horticulturist, April, 1901, pp. 198-199.
974. LOCHHEAD, W. The buffalo tree-hopper. <Canadian Horticulturist, June, 1901, p. 221, 4 figs.
975. LOCHHEAD, W. Some raspberry pests. <Canadian Horticulturist, July, 1901, pp. 278-279, 1 fig.
976. LOCHHEAD, W. Report of the inspector of fumigation appliances. <Ontario Dept. Agric., 1900 (1901), pp. 15, 7 figs.
977. LOCHHEAD, W. The wireworm and how to destroy it. <Farm-
ing World, 24 June, 1902.
978. LOCHHEAD, W. Injurious insects of the season of 1901. <32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902), pp. 43-50, 13 figs.

979. LOCHHEAD, W. Report of the inspector of fumigation appliances, 1901. <Toronto, 1902, pp. 16, 5 figs.
980. LOCHHEAD, W. The pea weevil. <33d Ann. Rept. Ent. Soc. Ontario f. 1902 (1903), pp. 13-15.
981. LOCHHEAD, W. The insects of the season. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 64-69, 7 figs.
982. LOCHHEAD, W. A key to orchard insects. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 101-114, 39 figs.
983. LOCHHEAD, W. Some injurious insects and fungus diseases of the year 1902. <Rept. Ontario Agric. College and Expt. Farms f. 1902 (1903), pp. 19-28, 10 figs.
984. LOCHHEAD, W. Spray calendar. <Bull. 122, Ontario Agric. Coll. and Expt. Farm, 1903, pp. 12, 1 fig.
985. LOCHHEAD, W. Progress of economic entomology in Ontario. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 22-26.
986. LOCHHEAD, W. Insects of the season. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 31-36, 2 figs.
987. LOCHHEAD, W. The present condition of the San Jose scale in Ontario. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 42-45, 1 fig.
988. LOCHHEAD, W. A key to the insects affecting small fruits. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 74-79, 25 figs.
989. LOCHHEAD, W. Some injurious insects of 1903 in Ontario. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 79-81.
990. LOOP, A. I. Compressed air for spraying. <Rural New Yorker, 27 October, 1900, p. 717, 2 figs.
991. LOUNSBURY, C. P. Notes on some South African ticks. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 41-49.
992. LOUNSBURY, C. P., and C. W. MALLY. Hydrocyanic-acid gas notes. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 75-80.
993. LOWE, V. H. The palmer worm in western N. Y. <Rural New Yorker, 14 July, 1900, p. 477-478, 6 figs.
Treats of damage by *Ypsolophus pomellus* Haw.
994. LOWE, V. H. An important wheat pest. <Country Gentleman, 26 July, 1900, p. 605.
Insect not determined.
995. LOWE, V. H. Ants in an orchard. <Rural New Yorker, 28 July, 1900, p. 513.

996. LOWE, V. H. Scale on apple trees. <Amer. Agric., 4 August, 1900, p. 100.
997. LOWE, V. H. Miscellaneous notes on insects. <Bull. No. 180, N. Y. State Agric. Exp. Sta., December, 1900, pp. 115-135, 8 pls.
998. LOWE, V. H. A fumigator for small orchard trees. <Bull. No. 181, N. Y. State Agric. Exp. Sta., December, 1900, pp. 137-142, 3 pls.
999. LOWE, V. H. San Jose scale investigations, II. <Bull. 194, N. Y. State Agric. Exp. Station, December, 1900, pp. 369-384.
1000. LOWE, V. H. Miscellaneous notes on injurious insects. <Bull. No. 212, New York State Agric. Exp. Station, April, 1902, pp. 1-25, 9 pls.
Treats of the periodical Cicada, the palmer worm, white grubs attacking aster plants, and *Papilio asterius* Stöll on celery.
1001. LOWE, V. H. Soap for San Jose scale. <Rural New Yorker, 8 November, 1902, p. 752.
1002. LOWE, V. H. Report on insects. <Rept. N. Y. State Fruit Grower's Assn. f. 1902, pp. 38-44.
1003. LOWE, V. H. A practical demonstration of fumigation. <Rept. N. Y. State Fruit Grower's Assn. f. 1902, pp. 58-64.
1004. LOWE, V. H. Lime-sulphur wash without boiling. <Rural New Yorker, 7 March, 1903, pp. 161-162.
1005. LOWE, V. H., and P. J. PARROTT. San Jose scale investigations, I. <Bull. 193, N. Y. State Agric. Exp. Station, December, 1900, pp. 351-368, 6 pls.
1006. LOWE, V. H., and P. J. PARROTT. San José scale investigations, III. <Bull. No. 202, N. Y. Agric. Exp. Sta., December, 1901, pp. 169-214, 1 fig., 1 pl.
1007. LOWE, V. H., and P. J. PARROTT. San Jose scale investigations, IV. <Bull. No. 228, N. Y. State Agric. Exp. Station, December, 1902, pp. 391-456, 7 pls.
1008. LUGGER, O. Bugs injurious to cultivated plants. <Bull. No. 69, Minn. Agric. Exp. Sta., December, 1900, pp. 250, 200 figs., 16 pls.
1009. MACCARTNEY, B. F. Some insects injurious to stored grain and the cereal products. <Penn. Dept. Agric. Rept. f. 1900 (1901), pp. 83-90, 8 figs.
1010. MACCARTNEY, B. F. Some insects injurious to shade-trees. <Penn. Dept. Agric. Rept. f. 1900 (1901), pp. 91-97, 4 figs.
1011. MACKINTOSH, R. S. Notes on some of the insects and fungous diseases affecting horticultural crops. <Bull. No. 124, Ala. Agric. Exp. Station, July, 1903, pp. 84-104, 4 figs.

1012. MACKINTOSH, R. S. The woolly aphid. <Prairie Farmer, 13 August, 1903.
1013. MACOUN, W. T. Experiments with lime mixtures for the eradication of the oyster-shell bark-louse. <Rept. Expt. Farms, Canada f. 1901, pp. 109-110.
Use of lime and water.
1014. MALLY, C. W. How to prepare insecticides. <Amer. Agriculturist, 10 March, 1900, p. 304.
1015. MALLY, F. W. To fight boll weevil. <Texas Stockman and Farmer, 19 December, 1900.
1016. MALLY, F. W. The grasshopper pest. <Texas Stockman and Farmer, 15 May, 1901.
1017. MALLY, F. W. About pests. <Texas Farmer, 18 May, 1901, pp. 1-2.
Treats of remedies for grasshoppers.
1018. MALLY, F. W. Cotton boll weevil. <Texas Farmer, 24 May, 1901.
1019. MALLY, F. W. Arsenate of lead *vs.* cotton insects. <Texas Farmer, 21 August, 1901.
1020. MALLY, F. W. Colonize the boll weevil. <Texas Stockman and Farmer, 6 November, 1901.
1021. MALLY, F. W. The Mexican cotton-boll weevil. <Farmer's Bull. No. 130, U. S. Dept. Agric., 1901, pp. 30.
1022. MALLY, F. W. No green bugs. <Texas Farmer, 8 March, 1902, p. 1.
1023. MALLY, F. W. Boll weevil. <Texas Farmer, 15 March, 1902, pp. 4-5.
Treats wholly of boll-worm.
1024. MALLY, F. W. Insect pests attacking truck crops. <Bull. No. 64, Texas Agric. Exp. Sta., April, 1902, pp. 18.
Brief notice of various species.
1025. MALLY, F. W. Boll weevil and plums. <Texas Stockman and Farmer, 7 May, 1902, p. 2.
1026. MALLY, F. W. Report on the boll weevil. <Austin, Texas, August, 1902, pp. 70.
1027. MALLY, F. W. Fight the boll weevil. <Texas Farmer, 12 November, 1902.
1028. MALLY, F. W. Report on the boll worm. <Austin, Texas, 1902, pp. 45.
1029. MARLATT, C. L. How to control the San Jose scale. < Cir. No. 42, s. s., Div. Entom., U. S. Dept. Agric., October, 1900, pp. 6.

1030. MARLATT, C. L. Insect enemies of growing wheat. <Prairie Farmer, 13 October, 1900, pp. 10.
1031. MARLATT, C. L. Important insecticides; directions for their preparation and use. <Farmers' Bull. No. 127, U. S. Dept. Agric., February, 1901, pp. 41, 6 figs.
1032. MARLATT, C. L. The principal insect enemies of growing wheat. <Farmers' Bull. No. 132, U. S. Dept. Agric., May, 1901, pp. 38, 25 figs.
A full account of the leading forms.
1033. MARLATT, C. L. The scale insect and mite enemies of citrus trees. <Yearbook Dept. Agric. f. 1900 (1901), pp. 247-290, 25 figs., 5 pls. <Farmer's Bull. No. 172, U. S. Dept. Agric., 1903.
1034. MARLATT, C. L. Some insecticide experiments. <Bull. No. 30, n. s., Div. Entom., U. S. Dept. Agric., October, 1901, pp. 33-39, 2 pls.
1035. MARLATT, C. L. A new nomenclature for the broods of the periodical Cicada. < Cir. No. 45, s. s., Div. Entom., U. S. Dept. Agric., pp. 8.
1036. MARLATT, C. L. A preliminary report on the San Jose scale in Japan. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 41-47.
1037. MARLATT, C. L. Ladybird enemies of San Jose scale; what may be expected of them. <Rural New Yorker, 2 August, 1902, p. 527.
1038. MARLATT, C. L. Résumé of the search for the native home of the San Jose scale in Japan and China. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 65-78.
1039. MARLATT, C. L. Preliminary report on the importation and present status of the Asiatic ladybird (*Chilocorus similis* Rossi.). <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 78-84.
1040. MARLATT, C. L. Predatory insects which affect the usefulness of scale-feeding Coccinellidæ. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 84-90.
1041. MARLATT, C. L. The lime, sulphur, and salt wash. < Cir. No. 52, s. s., Div. Entom., U. S. Dept. Agric., February, 1903, pp. 8.
1042. MARLATT, C. L. The peach-tree borer. < Cir. No. 54, Div. Ent., U. S. Dept. Agric., November, 1903, pp. 6, 1 fig.
1043. MARLATT, C. L. The San Jose scale, its native home and natural enemy. <Yearbook U. S. Dept. Agric. f. 1902 (1903), pp. 155-174, 1 map, 5 pls., 3 figs.

1044. MARLATT, C. L. Importations of beneficial insects into California. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 50-56.
1045. MARLATT, C. L. The new distillate spray in California. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 60-61, 1 pl.
1046. MARLATT, C. L. The discovery of the native home of the San Jose scale in eastern China, and the importation of its natural enemy. <Pop. Sci. Mo., 1904, pp. 306-317, 8 figs.
1047. MASKEW, FDK. Report of investigations and experiments on Fuller's rose beetle in southern California. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 46-50.
1048. MATHEWS, C. W. Grapes. <Bull. No. 92, Kentucky Agric. Exp. Station, pp. 80-81.
Notes on insects affecting grapes, especially *Allorhina nitida* Linn.
1049. MAY, J. E. A canker-worm trap. <Colman's Rural World, 17 April, 1901, p. 123.
1050. MAYNARD, S. T. Spraying calendar for 1900. <Bull. No. 66, Mass. Agric. Exp. Sta., March, 1900, pp. 17-19.
1051. MAYNARD, S. T. Tar for the apple borers. <Rural New Yorker, 3 January, 1902, p. 4.
1052. MAYNARD, S. T., and G. A. DREW. Spraying crops. <Bull. No. 73, Massachusetts Agric. Exp. Station, March, 1901, pp. 9-15.
1053. McCARTHY, G. Diseases and insects affecting apple trees in North Carolina, with suggestions for their destruction. <Rept. Commis. Agric. North Carolina f. 1900 (1901), pp. 216-227, 10 figs.
1054. McCARTHY, G. Malaria and mosquitoes. <Bull. No. 6, vol. 25, North Carolina Board of Agric., June, 1904, pp. 66-76, 10 figs.
1055. M'DONALD, J. A. Fly preventives and their economy. <American Agriculturist, 28 June, 1902, p. 822.
1056. MFARLAND, J. A review of our knowledge of malaria. <N. Y. Med. Journal, 1900, November, 17, p. 610.
1057. MCINTYRE, J. F. Work of the Ventura County Horticultural Commission. <Pacific Rural Press, 21 September, 1901, p. 181.
1058. MEAD, C. E. An enemy of the Colorado potato beetle. <Bull. No. 33, New Mexico Agric. Exp. Sta., April, 1900, pp. 47-49.
Notes on *Collops bipunctatus* Say.

1059. MEAD, H. O. Clear kerosene for insect pests. <Rural New Yorker, 26 September, 1903, p. 674.
1060. MEADE, M. Root aphides or lice. <Vick's Ill. Magazine, March, 1900.
1061. MEEHAN, J. Woolly aphis. <Practical Farmer, 25 May, 1901, p. 351.
1062. MELANDER, A. L. Destructive beetles; a note on landscape gardening. <Ent. News, January, 1904, pp. 19-23, 1 pl.
1063. MENGER, R. The cotton boll weevil. <Texas Stockman and Farmer, 14 October, 1903, 2 figs.
1064. MERRITT, M. L. The cabbage worm. <Iowa Agriculturist, 1904, pp. 86-87.
1065. MERRITT, M. L. The snowy tree cricket. <Prairie Farmer, 1 December, 1904, 2 figs.
1066. MILLER, E. R. The tomato worm and moth. <Ohio Farmer, 16 October, 1902.
1067. MILLER, D. W. Lime, sulphur, and salt easily mixed. <Pacific Rural Press, 30 April, 1904, p. 276.
1068. MITCHELL, G. The apple borer. <Wallace's Farmer, 29 March, 1901, p. 455.
1069. MOFFAT, J. A. Notes on the season of 1899. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 98-100, 2 figs.
1070. MOFFAT, J. A. Notes on the season of 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 42-44, 2 figs.
1071. MOFFAT, J. A. Parasites in the eggs of Chrysopa. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 51-52, 1 fig.
1072. MOFFAT, J. A. How to get rid of fleas. <Can. Entom. 1901, p. 172.
1073. MOFFAT, J. A. Notes on the season of 1901. <32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902), pp. 50-53, 3 figs.
1074. MOORE, E. L. Flies. <Bull. No. 81, South Dakota Agric. Station, 1903, pp. 41-42.
A mixture to rid animals of flies.
1075. MORGAN, H. A. The sugar cane borer. <Sugar Planter's Journal, 12 January, 1901, p. 29.
1076. MORGAN, H. A. The cane borer. <Louisiana Planter and Sugar Manufacturer, 12 October, 1901, pp. 234-235.
1077. MORGAN, H. A. The differential grasshopper in the Mississippi delta—other common species. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 1-33, 19 figs.
1078. MORGAN, H. A. Pecan insects. <Bull. No. 69, s. s., Louisiana Agric. Exp. Sta., October, 1902, pp. 879-884, 3 figs.

1079. MORGAN, H. A. Observations upon the mosquito, *Conchyliastes musicus* Say. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 113-115, 2 figs.
1080. MORGAN, H. A. The cattle tick situation. <Proc. Soc. Prom. Agric. Sci., 1903, pp. 72-74.
1081. MORGAN, H. A. The Mexican cotton-boll weevil. <Proc. Louisiana State Agric. Soc. and Stockbreeders Assoc., 1904, pp. 64-71.
1082. MORGAN, H. A., and J. W. DUPREE. Development and hibernation of mosquitoes. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 88-92.
1083. MORLAN, F. B. Some mistakes in spraying. <Kansas Farmer, 29 March, 1900.
1084. MORRILL, A. W. The greenhouse Aleyrodes (*A. vaporariorum* Westw.) and the strawberry Aleyrodes (*A. packardi* Morr.), a study of the insects and of their treatment. <Techn. Bull. No. 1, Mass. Agric. College, August, 1903, pp. 66, 6 pls.
1085. MORSE, M. Weevils in seed beans. <Rural New Yorker, 13 October, 1900, p. 687.
1086. MOYLE, M. A. Troublesome insects. <Wisc. Agriculturist, 4 August, 1904, p. 10.
1087. MUNSON, W. M. Habits of the plum curculio. <Rural New Yorker, 26 April, 1902, p. 302.
1088. MUNSON, W. M. Cankerworms. <Bull. No. 95, Maine Agric. Exp. Station, 1903, pp. 121-124, 2 figs.
1089. MURTFELDT, M. E. Apple leaf crumpler. <Colman's Rural World, 10 October, 1900, p. 319.
Work of *Phycis indigenella* Zell.
1090. MURTFELDT, M. E. Not San Jose scale. <Colman's Rural World, 24 October, 1900.
Note on *Lecaniun nigrofasciatum* Perg.
1091. MURTFELDT, M. E. Some insects injurious to small fruits. <Rept. Mo. Hortic. Soc. f. 1900 (1901), pp. 315-324.
1092. MURTFELDT, M. E. Traps catch good and bad. <Colman's Rural World, 5 June, 1901.
1093. MURTFELDT, M. E. The fall army worm. <Colman's Rural World, 2 October, 1901, p. 312.
1094. MURTFELDT, M. E. Drought, heat, and insect life. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 97-99.
1095. MURTFELDT, M. E. Recent experiments with destructive insects. <Rept. Missouri State Hortic. Soc., 1902, pp. 253-258.

1096. MURTFELDT, M. E. The effects of drought upon insect life. <Trans. Amer. Apple-Growers Congr. f. 1902, pp. 119-121.
1097. MURTFELDT, M. E. The rosebud feather wing. <Can. Entom., 1904, pp. 334-335.
Habits of *Platyptilia rhododactyla* Schiff.
1098. NESOM, G. E. Texas fever, part 1. <Bull. No. 72, S. C. Agric. Exp. Station, June, 1902, pp. 23.
1099. NEWELL, W. Treatment of orchards infested with San Jose scale. <Bull. No. 8, Georgia State Board of Entomology, October, 1903, pp. 20, 2 figs.
1100. NEWELL, W. The relation of bees to fruit-growing. <Proc. Georgia St. Hort. Soc. f. 1903 (1903), pp. 58-63.
1101. NEWELL, W. The cotton caterpillar. <Bull. No. 9, Georgia State Board of Entom., January, 1904, pp. 14, 4 figs.
1102. NEWELL, W. Crop pest law of Georgia. <Bull. No. 10, Georgia State Board of Entom., April, 1904, 10 pp.
1103. NEWELL, W. Insect notes from Georgia for the year 1903. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 103-105.
1104. NEWELL, W. Fumigation of nursery stock. Inspection laws of other States. <Bull. No. 11, Georgia State Board of Entomology, July, 1904, pp. 23, 7 figs.
1105. NEWELL, W. The Mexican cotton-boll weevil. <Bull. No. 12, Georgia State Board of Entomology, September, 1904, pp. 29, figs. 21.
1106. NEWELL, W., and R. I. SMITH. Experiments with the San Jose scale during 1904. Bull. No. 14, Georgia State Board Entomology, November, 1904, pp. 32, 5 figs.
1107. NEWMAN, C. C. Results of practical experiments with peach borer. <Bull. No. 83, S. C. Agric. Exp. Station, March, 1904, pp. 9.
1108. NILES, E. P. Animal parasites, I. <Bull. No. 108, Virginia Agric. Exp. Station, January, 1900, pp. 11.
General consideration of the subject.
1109. NILES, E. P. Animal parasites, II. <Bull. No. 109, Virginia Agric. Exp. Station, February, 1900, pp. 14-22, 2 figs.
Treats of mosquitoes.
1110. NILES, E. P. Animal parasites, Part III. <Bull. No. 110, Va. Agric. Exp. Sta., March, 1901, pp. 27-37, 7 figs.
Notes on *Gastrophilus equi* Fab., *G. haemorrhoidalis* Linn., *G. nasalis* Linn., *Hypoderma lineata* Villers, *H. bovis* DeG., and *Œstrus ovis* Linn.
1111. NILES, E. P. Animal parasites, IV. <Bull. 111, Va. Agric. Exp. Station, April, 1901, pp. 41-49, 6 figs.
Treats of certain Dipterous parasites.

1112. NILES, E. P. Animal parasites, V. <Bull. No. 112, Va. Agric. Exp. Station, May, 1901, pp. 53-68, 14 figs. Treats of fleas, lice, and bedbugs.
1113. NILES, E. P. Animal parasites, VI. <Bull. No. 113, Va. Agric. Exp. Station, June, 1901, pp. 71-80, 11 figs. Treats of Mallophagid parasites.
1114. NILES, E. P. Animal parasites, VII. <Bull. No. 114, Va. Agric. Exp. Station, July, 1901, pp. 83-95, 5 figs. Treats of Acaride parasites.
1115. NORTHCUTT, I. B. Fighting tobacco pests. <Practical Farmer, 29 September, 1900, p. 194.
1116. ORR, J. E. Some notes on spraying. <33d Ann. Rept. Ontario Fruit Growers' Assoc. f. 1901 (1902), pp. 100-102.
1117. OSBORN, H. The dispersal and control of insects. <Journ. Columbus Hort. Soc. f. 1900, pp. 19-22.
1118. OSBORN, H. Orchard insects. <Journ. Columbus Hortic. Soc. f. 1900, pp. 142-146.
1119. OSBORN, H. Getting rid of sheep-ticks and lice. <Amer. Agriculturist, 27 April, 1901, p. 594.
1120. OSBORN, H. Insects affecting forest trees. <Proc. Columbus Hortic. Soc., vol. 17, September, 1902, pp. 79-92.
1121. OSBORN, H. Some notable insect occurrences in Ohio for the first half of 1902. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 115-116.
1122. OSBORN, H. Note on the occurrence of the cigarette beetle in Columbus. <Ohio Naturalist, vol. 3, December, 1902, pp. 330-331.
1123. OSBORN, H. A method for mounting dry Coccidæ for permanent preservation. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 35-36.
1124. OSBORN, H. Insects of the season in Ohio. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 45-47.
1125. OSBORN, H. The insect problem. <Journ. Columbus Hortic. Soc., 1903, pp. 40-43.
1126. OSBORN, H. A subterranean root-infesting Fulgorid. <Ohio Naturalist, 1903, pp. 42-44.
1127. OSBORN, H. A suggestion in nomenclature. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 56-59.
1128. OSBORN, H. Observations on some of the insects of the season in Ohio. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 88-90.
1129. OSBORN, H. The economic status of the Fulgoridæ. <Proc. Soc., Prom. Agric. Science, 1904, pp. 32-36.

1130. OSBORN, W. B. How to handle the codling moth. <Nebraska Farmer, 1901, p. 361.
1131. PARROTT, P. J. A horn-fly trap experiment. <Press Bull. No. 49, Kansas Agric. Exp. Sta., November, 1899 (1900), 2 pp.
1132. PARROTT, P. J. Horn fly remedies. <Press Bull. No. 65, Kans. Agric. Exp. Sta., 20 March, 1900, pp. 2. <Kans. Farmer, 12 April, 1900, p. 315.
1133. PARROTT, P. J. Spraying. <Kansas Farmer, 19 April, 1900, 5 figs.
1134. PARROTT, P. J. Some scale-insects upon Kansas grasses. <Bull. No. 98, Kans. Agric. Exp. Sta., May, 1900, pp. 133-146, 6 pls.
1135. PARROTT, P. J. The Hessian fly. <Kansas Farmer, 24 May, 1900.
1136. PARROTT, P. J. Chinch-bug fungus distribution. <Journal of Agriculture, 10 July, 1903.
1137. PARROTT, P. J. Department of Entomology. <Bull. No. 244, N. Y. State Agric. Exp. Station, December, 1903, pp. 395-396. Sulphur sprays against San Jose scale, and notes on *Anametis granulatus* Say.
1138. PARROTT, P. J. Quick mixture of lime and sulphur. <Rural New Yorker, 30 April, 1904, p. 362.
1139. PARROTT, P. J. Merits of sulphur solution sprays. <American Agriculturist, 30 April, 1904, p. 512.
1140. PARROTT, P. J. Destroying onion maggots. <American Agriculturist, 2 July, 1904, p. 9.
1141. PARROTT, P. J. Up-to-date ideas about spraying. <Amer. Agriculturist, 17 Dec. 1904, p. 556.
1142. PARROTT, P. J., S. A. BEACH, and H. O. WOODWORTH. The lime-sulphur-soda wash for orchard treatment. <Bull. No. 247, N. Y. State Agric. Exp. Sta., February, 1904, pp. 61-81, 4 pls.
1143. PARROTT, P. J., and J. S. HOUSER. Experiments with sulphur sprays for the fall treatment of the San Jose scale. <Bull. No. 144, Ohio Agric. Exp. Station, October, 1903, pp. 13, 4 pls.
1144. PARROTT, P. J., and F. A. SIRRINE. Fall spraying with sulphur washes. <Bull. No. 254, New York State Agric. Exp. Station, August, 1904, pp. 317-337, 6 pls.
1145. PATTON, W. J. Ridding apple orchards of borers. <American Agriculturist, 8 March, 1902, p. 357.
1146. PEASE, S. A. Insect killing at the South. <Pacific Rural Press, 7 May, 1904, pp. 293-294.

1147. PENNY, C. L. The diffusion of hydrocyanic-acid vapor in an enclosed space. <28th Ann. Rept. Delaware Agric. Exp. Station, 1901, pp. 218-235.
1148. PERGANDE, TH. The southern grain louse (*Toxoptera graminum* Rond.). <Bull. No. 38, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 7-19, 1 pl.
1149. PERGANDE, TH. On some of the aphides affecting grains and grasses of the United States. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 5-23, 4 figs.
1150. PERGANDE, TH. A new enemy of the pear. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, p. 88.
1151. PERKINS, G. H. The forest caterpillar. <Bull. No. 76, Vermont Agric. Exp. Sta., March, 1900, pp. 113-137, 13 figs., 3 pls.
Treats of *Clisiocampa disstria* Hübn.
1152. PETERS, A. T. Mange in cattle and horses, and lice on hogs. <Bull. No. 74, Nebr. Agric. Exp. Sta., May, 1902, pp. 27, 7 figs.
1153. PETTIT, R. H. Some insects of the year 1899. <Bull. No. 180, Mich. Agric. Exp. Sta., March, 1900, pp. 117-141, 15 figs.
Notes on a number of species.
1154. PETTIT, R. H. A leaf-miner, *Chironomus* sp. in water-lilies. <First Rept. Mich. Acad. Sciences, 1900, pp. 110-111, 1 pl.
1155. PETTIT, R. H. Insect and animal life on the Upper Peninsula experiment station. Bull. No. 186, Mich. Agric. Exp. Station, December, 1900, pp. 28-42, 6 figs.
- 1156. PETTIT, R. H. Some insects of the year 1901. <Bull. No. 200, Mich. Agric. Exp. Station, May, 1902, pp. 179-212, 21 figs.
1157. PETTIT, R. H. Mosquitoes and other insects of the year 1902. <Special Bull. No. 17, Mich. Agric. Exp. Station, January, 1903, pp. 26, figs. 26.
1158. PETTIT, R. H. Insects injurious to fruits in Michigan. <Special Bull. No. 24, Mich. Agric. Exp. Station, 1904, pp. 79, 70 figs.
1159. PHILLIPS, J. L. Notes on *Melanoplus femoratus* Burm. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, p. 87.
1160. PHILLIPS, J. L. Fourth report of the State entomologist and plant pathologist on the San Jose scale and the administration of the crop pest laws of Virginia. <Richmond, Va., 1904, pp. 46, pls. 9.
1161. PHILLIPS, J. L., and H. L. PRICE. The English pea louse. <Southern Planter, April, 1900.

1162. PIERCE, N. B. Bees and pear blight. <Pacific Rural Press, 25 May, 1901.
1163. PIPER, C. V. Orchard enemies in the Pacific Northwest. <Farmers' Bulletin No. 153, U. S. Dept. Agric., June, 1902, pp. 38, 3 figs.
1164. PIPER, C. V. Notes on *Peranabrus scabricollis* Thos. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 60-61.
1165. PIPER, C. V., and R. W. THATCHER. Spraying for the San José scale with modifications of the sulphur-salt-lime wash, and chemical notes on this wash. <Bull. No. 56, Wash. Agric. Exp. Station, November, 1903, pp. 31.
1166. PLATT, G. F. The San Jose scale; what it has done in Connecticut. <Rural New Yorker, 20 August, 1904.
1167. POPENOE, E. A. The buffalo tree hopper. <Press Bull. No. 68, Kans. Agric. Exp. Sta., 14 May, 1900, pp. 2.
1168. POPENOE, E. A. Causes of failure in spraying. <Press Bull. No. 66, Kans. Agric. Exp. Sta., 27 March, 1900, pp. 2. <Calif. Cultivator, 10 August, 1900, p. 89.
1169. POPENOE, E. A. The clover-hay worm. <Press Bull. No. 91, Kansas Agric. Exp. Sta., June, 1901, pp. 2.
1170. POPENOE, E. A. Grain weevils. <Prairie Farmer, 9 November, 1901. <Nebraska Farmer, 1901, p. 1031.
1171. POPENOE, E. A. Preventing Hessian fly damage. <Orange Judd Farmer, 22 August, 1903. <American Agriculturist, 12 September, 1903, p. 205.
1172. POUGH, F. H. The lime and sulphur wash. <Rural New Yorker, 11 June, 1904, p. 459.
1173. POWERS, S. The Hessian fly. <Country Gentleman, 31 October, 1901, p. 889.
1174. PRATT, A. Report of committee on gipsy moth. <Rept. Mass. State Board Agric., 1901, pp. 313-319.
1175. PRICE, H. C. Hydrocyanic-acid gas in greenhouses. <Amer. Florist, 1902, pp. 405-406.
1176. PRICE, R. H. The lime, sulphur, and salt wash for San Jose scale. <Southern Planter, February, 1904.
1177. PRICE, S. F. A fern enemy. <Fern Bulletin, October, 1900, pp. 86-87.
A Podurid injuring roots.
1178. PUTNAM, B. L. The currant worm. <Wisconsin Agriculturist, 25 April, 1901, p. 8.
1179. QUAIANTANCE, A. L. Observations on *Diabrotica 12-punctata* Oliv. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 35-40.

1180. QUAINTANCE, A. L. Insect notes. <Thirteenth Ann. Rept. Georgia Agric. Exp. Sta. f. 1900 (January, 1901), pp. 361-371. Notes on various species.
1181. QUAINTANCE, A. L. Report of the State entomologist. <Proc. Maryland State Hortic. Soc., IV (1902), pp. 18-24.
1182. QUAINTANCE, A. L. Injurious insects of the year. <Proc. Maryland State Hortic. Soc., IV (1902), pp. 87-104, 12 figs.
1183. QUAINTANCE, A. L. The seventeen year locusts; how the adults feed. <Rural New Yorker, 26 July, 1902, p. 511.
1184. QUAINTANCE, A. L. Report of experiment with lime, salt, and sulphur wash against the San Jose scale in Maryland. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 37-40.
1185. QUAINTANCE, A. L. On the feeding habits of adults of the periodical Cicada. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 90-94, 3 figs.
1186. QUAINTANCE, A. L. The periodical cicada or seventeen year locust. <Bull. No. 87, Maryland Agric. Exp. Station, November, 1902, pp. 65-116, 2 pls., 17 figs.
1187. QUAINTANCE, A. L. Further notes on the lime, sulphur, and salt wash in Maryland. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 36-37.
1188. QUAINTANCE, A. L. Entomological notes from Maryland. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 47-50, 1 map.
1189. QUAINTANCE, A. L. The cotton bollworm. <Farmers' Bull. No. 191, U. S. Dept. Agric., February, 1904, pp. 24, 7 figs.
1190. QUAINTANCE, A. L., and R. I. SMITH. Egg-laying record of the plum curculio. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 105-107.
1191. R——, J. B. San Jose scale in New Jersey. <Rural New Yorker, 22 March, 1902, p. 210.
1192. RANE, F. W. Plant environment and insect depredations. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 84-86.
1193. REH, L. Scale insects on American fruit imported into Germany. <Bull. No. 22, n. s., Div. Ent., U. S. Dept. Agric., January, 1900, pp. 79-83.
1194. RENNIE, R. W. Notes on insects of the year 1900. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, p. 41.
1195. REPP, J. J. The chicken mite. <Bull. No. 69, Iowa Agric. Exp. Station, June, 1903, pp. 287-294, 2 figs.

1196. REYNOLDS, G. C. Handling sheep parasites. <Orange Judd Farmer, 30 July, 1904.
1197. RICHARDSON, W. S. A season's experience with scale. <American Agriculturist, 15 November, 1902, p. 522.
1198. ROBERT, J. C. Texas fever. <Bull. No. 69, Miss. Agric. Exp. Station, November, 1901, pp. 15, 3 figs.
1199. ROBERTS, I. P., M. V. SLINGERLAND, and J. L. STONE. The Hessian fly. <Bull. 194, Cornell Agric. Exp. Station, August, 1901, pp. 239-260, 4 figs.
1200. ROEDING, G. C. The Calimyrna fig. <Pacific Rural Press, 6 February, 1904.
1201. ROOT, W. L. Borer preventive for fruit-trees. <Kansas Farmer, 1 March, 1900.
A mixture of lime, carbolic acid, sulphur, and whale-oil soap.
1202. ROSE, R. E. Fungicides, insecticides, and spraying calendar. <Monthly Bull. Florida Dept. Agric., vol. 13 (1903), No. 83, pp. 39-53.
1203. ROWE, A. S. Investigations of the codling moth. <Calif. Cultivator, 26 September, 1902; Pacific Rural Press, 10 October, 1902, pp. 228-229.
1204. S——, J. W. Red cedar tea for potato bugs. <Rural New Yorker, 2 May, 1903, p. 340.
1205. SALMON, D. E., and CH. W. STILES. Cattle ticks (Ixodoidea) of the United States. <17th Ann. Rept. Bur. Anim. Ind., U. S. Dept. Agric. (1902), pp. 380-491, 213 figs.
1206. SAMPSON, F. G. Dry-powder spraying in Florida. <Rural New Yorker, 26 July, 1902, p. 511.
1207. SANDERSON, E. D. Potato stalk borer. <Agric. Epitomist, January, 1900.
1208. SANDERSON, E. D. The strawberry root louse. <Trans. Peninsula Hortic. Soc., January, 1900, pp. 87-92.
1208. SANDERSON, E. D. Pea pests. <The Canner and Dried Fruit Packer, February, 1900, pp. 38-40, 7 figs.
1210. SANDERSON, E. D. A fruit tree protector. <Agric. Epitomist, March, 1900, 1 fig.
1211. SANDERSON, E. D. The destructive pea louse. <The Canner and Dried Fruit Packer, March, 1900, 3 pp., 6 figs.
1212. SANDERSON, E. D. The corn root worm. <Agric. Epitomist, May, 1900.
1213. SANDERSON, E. D. The destructive pea louse. <Press Bull. No. 4, Delaware Agric. Exp. Sta., 15 May, 1900, 2 pp.

1214. SANDERSON, E. D. The green pea louse. <Press Bull. No. 5, Del. Agric. Exp. Sta., 1 June, 1900, 3 pp.
1215. SANDERSON, E. D. Controlling the woolly apple aphid. <Field and Farm, 2 June, 1900. <Amer. Agriculturist, 2 June, 1900, p. 668, 2 figs.
1216. SANDERSON, E. D. The weeder as an insecticide. <Amer. Gardening, 2 June, 1900.
1217. SANDERSON, E. D. A quince pest. <Amer. Agric., 16 June, 1900, 1 fig.
Note on *Corythucha arcuata* Say.
1218. SANDERSON, E. D. Tomato insects. <Amer. Gardening, 16 June, 1900.
1219. SANDERSON, E. D. The destructive green pea louse. <Rural New Yorker, 16 June, 1900, pp. 413-414, 6 figs.
1220. SANDERSON, E. D. The wheat midge. <Amer. Agriculturist, 23 June, 1900.
1221. SANDERSON, E. D. Crimson clover and the pea louse. <Rural New Yorker, 14 July, 1900, p. 480.
1222. SANDERSON, E. D. Pea louse in Wisconsin. <Rural New Yorker, 9 September, 1900, p. 659.
1223. SANDERSON, E. D. Notes from Delaware. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 66-72.
1224. SANDERSON, E. D. The strawberry root louse. <Bull. No. 49, Del. Agric. Exp. Sta., December, 1900, pp. 1-13, 8 figs.
1225. SANDERSON, E. D. The destructive pea louse in Delaware. <Bull. No. 49, Del. Agric. Exp. Sta., December, 1900, pp. 14-24, 4 figs.
1226. SANDERSON, E. D. Grubs and cutworms on peas. <Rural New Yorker, 29 December, 1900, p. 865.
1227. SANDERSON, E. D. Danger from green pea louse. <Rural New Yorker, 13 April, 1901, p. 268.
1228. SANDERSON, E. D. Subjugating the apple maggot. <Amer. Agriculturist, 27 April, 1901, p. 592.
1229. SANDERSON, E. D. Successful sprayer for the pea louse. <Rural New Yorker, 13 July, 1901, pp. 481-482, 2 figs.
1230. SANDERSON, E. D. The Angoumois grain moth. <Press Bull. No. 10, Del. Agric. Exp. Sta., October 15, 1901, 3 pp.
1231. SANDERSON, E. D. How to make a fumigation house. <Rural New Yorker, 19 October, 1901, p. 707; 26 October, p. 723, 1 fig.
1232. SANDERSON, E. D. Report of the entomologist. <^{12th} ~~28th~~ Ann. Rept. Delaware Agric. Exp. Station, 1901, pp. 142-211, 14 figs.
Treats of a number of species, mostly plant-lice.

1233. SANDERSON, E. D. Hydrocyanic acid gas as an insecticide. Application to low-growing plants. <28th Ann. Rept. Delaware Agric. Exp. Station, 1901, pp. 212-218.
1234. SANDERSON, E. D. Application of hydrocyanic acid gas in the fumigatorium. <28th Ann. Rept. Delaware Agric. Exp. Station, 1901, pp. 235-238.
1235. SANDERSON, E. D. Three orchard pests. <Bull. No. 53, Delaware Agric. Exp. Station, January, 1902, pp. 19, 11 figs. Treats of *Steganoptycha pyricolana* Murt., *Euzophera semifuneralis* Walk., and *Cicada septendecim* Linn.
1236. SANDERSON, E. D. Valuable remedy for codling moth. <American Agriculturist, 12 April, 1902, p. 528.
1237. SANDERSON, E. D. The strawberry root-louse. <Country Gentleman, 17 April, 1902, p. 331, 1 fig.
1238. SANDERSON, E. D. Insect notes for Delaware. <American Agriculturist, 31 May, 1902, p. 732.
1239. SANDERSON, E. D. Some destructive caterpillars. <Bull. No. 56, Del. Agric. Exp. Sta., June, 1902, pp. 28, 14 figs. Treats of *Hyphantria cunea* Dru., *Hemerocampa leucostigma* S. and A., and *Clisiocampa americana* Harr.
1240. SANDERSON, E. D. Notes from Delaware. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 97-102.
1241. SANDERSON, E. D. Insects injurious to staple crops. <New York, 1902, pp. 295, figs. 162.
1242. SANDERSON, E. D. Report of the entomologist. <13th Ann. Rept. Del. Agric. Exp. Sta., 1902, pp. 127-199, 33 figs.
1243. SANDERSON, E. D. The codling moth. <Bull. No. 59, Del. Agric. Exp. Station, February, 1903, pp. 22, 4 figs., 2 pls.
1244. SANDERSON, E. D. The larva and pupa of the apple bud-borer. <Canad. Entom., 1903, pp. 158-161, 5 figs. Treats of *Steganoptycha pyricolana* Murt.
1245. SANDERSON, E. D. How to combat the Mexican cotton-boll weevil in summer and fall. <Cir. No. 4, Texas Agric. Exp. Station, September, 1903, pp. 4. <Texas Stockman and Farmer, 16 September, 1903.
1246. SANDERSON, E. D. Cutworms. <Entom. Cir. No. 5, Texas Agric. Exp. Station, March, 1904, pp. 2, 1 fig.
1247. SANDERSON, E. D. Two plum weevils. <Entom. Cir. No. 6, Texas Agric. Exp. Station, April, 1904, pp. 4, 4 figs.
1248. SANDERSON, E. D. Grasshoppers. <Entom. Cir. No. 7, Texas Agric. Exp. Station, April, 1904, pp. 4, 3 figs.

1249. SANDERSON, E. D. The cotton-boll weevil in Texas. <Entom. Cir. No. 8, Texas Agric. Exp. Station, 15 April, 1904, 14 pp. 6 figs.
1250. SANDERSON, E. D. The card-index system for entomological records. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 26-34.
1251. SANDERSON, E. D. Insects of 1903 in Texas. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 92-96.
1252. SANDERSON, E. D. Insects mistaken for the Mexican cotton-boll weevil. <Bull. No. 74, Texas Agric. Exp. Station, September, 1904, pp. 13, 13 figs.
1253. SANDERSON, E. D. The kelep and the cotton plant. <Science, 23 December, 1904, p. 887.
1254. SANDERSON, E. D. The Mexican cotton-boll weevil in Texas. <Proc. Soc. Prom. Agric. Science, 1904, pp. 157-170, 6 figs.
1255. SANDERSON, E. D., and E. C. GREEN. Directions for treatment of insect pests and plant diseases. <Cir. No. 3, Texas Agric. Exp. Station, 1903, pp. 4, 4 figs.
1256. SANDERSON, E. D., and C. L. PENNY. Hydrocyanic acid gas as an insecticide on low growing plants. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 60-66.
1257. SATTERTHWAIT, A. S. A Philadelphia shade tree pest. <Entom. Student, vol. 1, No. 4, p. 11, 1900.
Notes on *Orgyia leucostigma* S. and A.
1258. SAUNDERS, D. A. Some destructive insects. <Bull. No. 81, South Dakota Agric. Exp. Station, June, 1903, pp. 63-66.
1259. SCHWARZ, E. A. A season's experience with figs and fig-insects in California. <Proc. Ent. Soc. Wash., Vol. IV, pp. 502-507, 1901.
1260. SCHWARZ, E. A. A new Coccinellid enemy of the San Jose scale. <Proc. Ent. Soc. Wash., April, 1904, pp. 118-120.
1261. SCOTT, W. M. Notes on Coccidæ of Georgia. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 49-54.
1262. SCOTT, W. M. Spring treatment for orchards infested with the San Jose scale. <Cir. No. 5, Georgia State Board of Entomology, 1901, pp. 4, 1 fig.
1263. SCOTT, W. M. Inspection and certification of nursery stock. <Bull. No. 3, Georgia State Bd. Entom., July, 1901, pp. 9, 3 figs.
1264. SCOTT, W. M. A preliminary note on a new species of *Aphis* injurious to plums and peaches in Georgia. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 56-59, 4 figs.

1265. SCOTT, W. M. Some practical experiments with various insecticides for the San Jose scale in Georgia. *<Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 41-51.*
1266. SCOTT, W. M. Instructions for the treatment of the San Jose scale. *<Bull. No. 5, Georgia State Board Entom., 15 November, 1902, pp. 12, 1 fig.*
1267. SCOTT, W. M. Treatment of the San Jose scale. *<Proc. Georgia State Hort. Soc. f. 1902 (1902), pp. 26-37.*
1268. SCOTT, W. M. Some recent spraying experiments. *<Proc. Georgia State Hortic. Soc., 1903, pp. 86-97, 4 figs.*
1269. SCOTT, W. M., and W. F. FISKE. Jarring for the curculio on an extensive scale in Georgia, with a list of the insects caught. *<Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 24-35, 2 pls.*
1270. SCOTT, W. M., and W. F. FISKE. Winter treatment of the San Jose scale in light of recent experiments. *<Bull. No. 4, Georgia St. Bd. Agric., September, 1902, pp. 32, 2 pls.*
1271. SHEARER, H. Calimyrna figs. *<Nebraska Farmer, 12 December, 1901.*
1272. SHELDON, J. L. Some plants which live upon and in insects. *<Ann. Rept. Nebraska State Board Agric. f. 1901 (1902), pp. 131-141, 11 figs.*
1273. SHEPLER, I. Mosquitoes. *<Agric. Epitomist, July, 1903.*
1274. SHERMAN, F., Jr. Report of the entomologist. *<Rept. Commis. Agric. North Carolina f. 1900 (1901), pp. 7-35.*
1275. SHERMAN, F., Jr. Report of the entomologist. *<Rept. Com. Agric., North Carolina f. 1902, pp. 34-39.*
1276. SHERMAN, F., Jr. Insect enemies of apple, pear, and quince, with methods of treatment. *<Bull. No. 183, North Carolina Agric. Exp. Station, April, 1903, pp. 45-63, 11 figs.*
1277. SHERMAN, F., Jr. Injurious insects. *<The Bulletin, N. Car. State Board Agric., vol. 24, No. 6, June, 1903, pp. 39, figs. 21. <Rept. Commis. Agric. North Carolina f. 1903 (1903), pp. 121-144, pp. 198-206.*
1278. SHERMAN, F., Jr. Fly in wheat—how to control it. *<Entom. Cir. No. 1, N. C. Dept. Agric., September, 1903, pp. 4, 1 fig.*
1279. SHERMAN, F., Jr. The cotton boll-worm (*Heliothis armiger* Hübn.). *<Entom. Cir. No. 2, N. C. Dept. Agric., October, 1903, pp. 6, 1 fig.*
1280. SHERMAN, F., Jr. The round-headed apple-tree borer. *<Entom. Cir. No. 3, N. C. Dept. Agric., December, 1903, pp. 5, 1 fig.*

1281. SHERMAN, F., Jr. Spraying apparatus. <Entom. Cir. No. 4, N. C. Dept. Agric., January, 1904, 7 pp., 4 figs.
1282. SHERMAN, F., Jr. Lime, sulphur, and salt wash for San Jose scale. <Entom. Cir. No. 5, N. C. Dept. Agric., January, 1904, pp. 8.
1283. SHERMAN, F., Jr. Spraying apples and pears. <Entom. Cir. No. 6, N. C. Dept. Agric., February, 1904, pp. 7.
1284. SHERMAN, F., Jr. The peach-tree borer. <Entom. Cir. No. 7, N. C. Dept. Agric., February, 1904, pp. 5, 1 fig.
1285. SHERMAN, F., Jr. The harlequin cabbage bug. <Entom. Cir. No. 8, N. C. Dept. Agric., 15 April, 1904, pp. 7, 1 fig.
1286. SHERMAN, F., Jr. The potato-beetle. <Entom. Cir. No. 9, N. C. Dept. Agric., 25 April, 1904, pp. 8, 2 figs.
1287. SHERMAN, F., Jr. Preparation and use of kerosene emulsion. <Entom. Cir. No. 10, N. C. Dept. Agric., 1904, pp. 6.
1288. SHERMAN, F., Jr. The San Jose scale. <Entom. Cir. No. 11, N. C. Dept. Agric., October, 1904, pp. 8, 2 figs.
1289. SHERMAN, F., Jr., and R. W. COLLETT. The strawberry weevil. <Cir. No. 12, N. C. Dept. Agric., October, 1904, pp. 8.
1290. SHULL, A. F. A fly brush for cattle. <Amer. Agriculturist, 15 June, 1901, p. 782.
1291. SHUTT, F.T. Chemistry of insecticides and fungicides. <Rept. Expt. Farms, Canada f. 1901, pp. 191-193.
1292. SIMPSON, C. B. Report upon an investigation of the codling moth in Idaho in 1900. <Bull. No. 30, n. s., Div. Ent., U. S. Dept. Agric., October, 1901, pp. 51-63.
1293. SIMPSON, C. B. Report on codling-moth investigations in the Northwest during 1901. <Bull. 35, n. s., Div. Entom., U. S. Dept. Agric., October, 1901, pp. 29, 5 pls.
1294. SIMPSON, C. B. The yellow-winged locust. <Cir. No. 53, s. s., Div. Entom., U. S. Dept. Agric., May, 1903, pp. 3, 1 fig. Treats of *Cannula pellucida* Scudd.
1295. SIMPSON, C. B. Observations upon the life history of the codling moth. <Bull. No. 40, Div. Ent., U. S. Dept. Agric., August, 1903, pp. 63-64.
1296. SIMPSON, C. B. The codling moth. <Bull. No. 41, Division of Ent., U. S. Dept. Agric., October, 1903, pp. 105, 16 pls., 19 figs.
1297. SIMPSON, C. B. The control of the codling moth. <Farmers' Bull. No. 171, U. S. Dept. Agric., 1903, pp. 23, 4 figs.
1298. SIRRINE, F. A. Insects infesting carnations. <The Weekly Florists' Review, 22 February, 1900, pp. 343-347. <The American Florist, 3 March, 1900.

1299. SIRRINE, F. A. Maggots and smut in onions. *<Rural New Yorker*, 12 May, 1900, p. 334.
1300. SIRRINE, F. A. A little-known asparagus pest. *<Bull. No. 189, New York Agric. Exp. Station*, December, 1900, pp. 277-282, 5 figs.
Treats of *Agromyza simplex* Loew.
1301. SIRRINE, F. A. Bugs and blight on Long Island. *<Rural New Yorker*, 10 October, 1901, p. 707.
1302. SIRRINE, F. A. Treatment for San Jose scale in orchards. I. Orchard fumigation. *<Bull. No. 209, N. Y. State Exp. Station*, December, 1901, pp. 343-372, 8 pls., 2 figs.
1303. SIRRINE, F. A. A sulphur Bordeaux mixture. *<Rural New Yorker*, 22 March, 1902, p. 209.
1304. SIRRINE, F. A. Treatment for San Jose scale in orchards. *<Bull. No. 213, New York State Agric. Exp. Station*, April, 1902, pp. 27-51, 4 pls.
Spraying with kerosene and crude petroleum.
1305. SIRRINE, F. A. Damage to apple trees. *<Rural New Yorker*, 21 June, 1902, p. 432.
1306. SKINNER, H. Destructive insects and insects as etiological factors in disease. *<Sci. Amer. Supp.*, 11 May, 1901, pp. 21207-21209.
1307. SLINGERLAND, M. V. An insect that knows beans. *<Rural New Yorker*, 20 January, 1900, p. 35.
1308. SLINGERLAND, M. V. The raddish maggot. *<Rural New Yorker*, 17 February, 1900, p. 106.
Notes on *Anthomyia raphani* Harr.
1309. SLINGERLAND, M. V. Oyster-shell bark-louse. *<Rural New Yorker*, 17 February, 1900, p. 106.
1310. SLINGERLAND, M. V. Killing the woolly aphid. *<Rural New Yorker*, 24 March, 1900, p. 203.
1311. SLINGERLAND, M. V. New insecticides. *<American Agriculturist*, 14 April, 1900, p. 478.
1312. SLINGERLAND, M. V. Scales on house plants. *<Rural New Yorker*, 21 April, 1900, p. 284.
On a *Lecanium* sp.
1313. SLINGERLAND, M. V. Facts about the codling moth. *<Rural New Yorker*, 5 May, 1900, p. 318.
1314. SLINGERLAND, M. V. The raspberry cane borer and asparagus fly. *<Rural New Yorker*, 19 May, 1900, p. 352.
1315. SLINGERLAND, M. V. Ants in a door-yard. *<Rural New Yorker*, 26 May, 1900, p. 368.

1316. SLINGERLAND, M. V. Sulphur for "curing" trees. <Rural New Yorker, 26 May, 1900, p. 368.
1317. SLINGERLAND, M. V. Killing plant-lice. <Rural New Yorker, 26 May, 1900, p. 368.
1318. SLINGERLAND, M. V. Fighting the red spider. <Rural New Yorker, 7 July, 1900, p. 464.
1319. SLINGERLAND, M. V. Killing flies in a stable. <Rural New Yorker, 14 July, 1900, p. 480.
1320. SLINGERLAND, M. V. Cleansing sprayer. <Rural New Yorker, 14 July, 1900, p. 480.
1321. SLINGERLAND, M. V. Potato beetles slow to hatch. <Rural New Yorker, 21 July, 1900, p. 496.
1322. SLINGERLAND, M. V. Ground beetles that love fruit. <Rural New Yorker, 4 August, 1900, p. 426, 1 fig.
Notes on *Harpalus caliginosus* Fab. and *H. pennsylvanicus* DeG.
1323. SLINGERLAND, M. V. Insects that eat potato bugs. <Rural New Yorker, 14 August, 1900, p. 542.
Note on *Perillus circumcinctus* Stål.
1324. SLINGERLAND, M. V. An insect in potato stalks. <Rural New Yorker, 14 August, 1900, p. 545.
Notice of *Trichobaris trinotata* Say.
1325. SLINGERLAND, M. V. The destructive Hessian fly. <Rural New Yorker, 25 August, 1900, pp. 573-574, 3 figs.
1326. SLINGERLAND, M. V. An insect that saws wood. <Rural New Yorker, 8 September, 1900, p. 606.
Habits of *Oncideres cingulata* Say.
1327. SLINGERLAND, M. V. Insects on gladiolas and heliotrope. <Rural New Yorker, 8 September, 1900, p. 608.
Notes on blister-beetles and *Chauliognathus pennsylvanicus* DeG.
1328. SLINGERLAND, M. V. Bisulphide of carbon and strawberries. <Rural New Yorker, 15 September, 1900, p. 524.
1329. SLINGERLAND, M. V. San Jose scale on pear. <Rural New Yorker, 6 October, 1900, p. 672, 1 fig.
1330. SLINGERLAND, M. V. Crude petroleum for San Jose scale. <Rural New Yorker, 3 November, 1900, p. 734.
1331. SLINGERLAND, M. V. Pea lice in New York. <Rural New Yorker, 3 November, 1900, p. 737.
1332. SLINGERLAND, M. V. Do bees injure fruit? <Rural New Yorker, 10 November, 1900, pp. 749-750.
1333. SLINGERLAND, M. V. Tar and kerosene for trees. <Rural New Yorker, 24 November, 1900, p. 784.

1334. SLINGERLAND, M. V. The grape root-worm, a new grape pest in New York. <Bull. No. 184, Cornell Agric. Exp. Sta., November, 1900, pp. 21-32, 11 figs.
1335. SLINGERLAND, M. V. The common European praying mantis; a new beneficial insect in America. <Bull. No. 185, Cornell Agric. Exp. Sta., November, 1900, pp. 35-47, 3 figs.
1336. SLINGERLAND, M. V. Bats and bedbugs. <Rural New Yorker, 1 December, 1900, p. 800.
1337. SLINGERLAND, M. V. A new Hessian fly problem. <Rural New Yorker, 8 December, 1900, p. 814.
1338. SLINGERLAND, M. V. Some insect experiences of 1899. <Proc. West. N. Y. Hortic. Soc. f. 1900 (1900), pp. 49-52.
1339. SLINGERLAND, M. V. A lantern moth trap. <Rural New Yorker, 19 January, 1901, p. 35.
1340. SLINGERLAND, M. V. The palmer-worm. <Bull. No. 187, Cornell Agric. Exp. Station, January, 1901, pp. 81-101, 8 figs. Account of *Ypsolophus pomellus* Haw.
1341. SLINGERLAND, M. V. Do curculios crawl or fly? <Rural New Yorker, 16 February, 1901, p. 164.
1342. SLINGERLAND, M. V. Black beetles on strawberry plant. <Rural New Yorker, 23 February, 1901, p. 125.
1343. SLINGERLAND, M. V. The book-worm. <Rural New Yorker, 16 March, 1901, p. 189.
1344. SLINGERLAND, M. V. Steely bugs and rose bugs. <Rural New Yorker, 13 April, 1901, p. 268.
1345. SLINGERLAND, M. V. Fighting the plum curculio. <Rural New Yorker, 20 April, 1901, p. 289.
1346. SLINGERLAND, M. V. Parasites of tent caterpillars. <Rural New Yorker, 25 May, 1901, p. 371.
1347. SLINGERLAND, M. V. Three unusual strawberry pests and a greenhouse pest. <Bull. No. 190, Cornell Agric. Exp. Station, May, 1901, pp. 145-164.
1348. SLINGERLAND, M. V. Further experiments against the peach-tree borer. <Bull. No. 192, Cornell Univ. Agric. Exper. Station, June, 1901, pp. 191-196, 5 figs.
1349. SLINGERLAND, M. V. Dung worms and white grubs. <Rural New Yorker, 15 June, 1901, p. 420.
1350. SLINGERLAND, M. V. Snout beetle on fruit. <Rural New Yorker, 29 June, 1901, p. 452.
Note on *Epicærus imbricatus* Say.
1351. SLINGERLAND, M. V. An experience with spraying. <Rural New Yorker, 6 July, 1901, p. 468.

1352. SLINGERLAND, M. V. Spraying for the codling moth. <Rural New Yorker, 6 July, 1901, p. 468.
1353. SLINGERLAND, M. V. Scales on maple trees. <Rural New Yorker, 6 July, 1901, p. 469.
Lecanium sp.
1354. SLINGERLAND, M. V. Plant-lice on plum-trees. <Rural New Yorker, 6 July, 1901, p. 469.
1355. SLINGERLAND, M. V. Peach root aphid. <Rural New Yorker, 13 July, 1901, p. 484.
1356. SLINGERLAND, M. V. Woolly aphid on apple roots. <Rural New Yorker, 13 July, 1901, p. 484.
1357. SLINGERLAND, M. V. A talk about plant lice. <Rural New Yorker, 13 July, 1901, p. 484.
1358. SLINGERLAND, M. V. Seventeen year locust. Watermelon bug. <Rural New Yorker, 13 July, 1901, p. 484.
1359. SLINGERLAND, M. V. Plant lice on apples. <Rural New Yorker, 13 July, 1901, p. 484.
1360. SLINGERLAND, M. V. Killing the cucumber bug. <Rural New Yorker, 3 August, 1901, p. 532.
1361. SLINGERLAND, M. V. Bag worm on evergreens. <Rural New Yorker, 24 August, 1901, p. 580.
1362. SLINGERLAND, M. V. The story of plant galls. <Rural New Yorker, 31 August, 1901, p. 594.
1363. SLINGERLAND, M. V. Some injurious ladybird insects. <Rural New Yorker, September 7, 1901, p. 610, 2 figs.
Notes on *Epilachna borealis* Fab.
1364. SLINGERLAND, M. V. Hessian fly and ragweed. <Rural New Yorker, September 7, 1901, p. 612.
1365. SLINGERLAND, M. V. Facts about "fly-proof" wheat. <Rural New Yorker, 14 September, 1901, p. 627.
1366. SLINGERLAND, M. V. The fall web-worm. <Rural New Yorker, 28 September, 1901, pp. 658-9, 3 figs.
1367. SLINGERLAND, M. V. A worm that has worms. <Rural New Yorker, 5 October, 1901, p. 674, 1 fig.
Larva of tomato worm with parasites.
1368. SLINGERLAND, M. V. Work of the 17-year locust. <Rural New Yorker, 12 October, 1901, p. 690.
1369. SLINGERLAND, M. V. A grape-vine beetle. <Rural New Yorker, 12 October, 1901, p. 693.
1370. SLINGERLAND, M. V. The hickory horned devil. <Rural New Yorker, 2 November, 1901, p. 738, 1 fig.
1371. SLINGERLAND, M. V. Poultry and potato beetles. <Rural New Yorker, 16 November, 1901, p. 772.

1372. SLINGERLAND, M. V. Entomology. <Proc. West. N. Y. Hort. Soc. f. 1901 (1901), pp. 68-73, 4 figs.
1373. SLINGERLAND, M. V. Sprays for green aphis. <Rural New Yorker, 25 January, 1902, p. 52.
1374. SLINGERLAND, M. V. The powder post beetle. <Rural New Yorker, 15 February, 1902, p. 104.
Note on *Lyctus unipunctatus* Hbst.
1375. SLINGERLAND, M. V. San Jose scale on raspberries. <Rural New Yorker, 15 February, 1902, p. 104.
1376. SLINGERLAND, M. V. Potato-beetles on tomatoes. <Rural New Yorker, 15 February, 1902, p. 105.
1377. SLINGERLAND, M. V. Damage from corn weevil. <Rural New Yorker, 22 February, 1902, p. 124.
1378. SLINGERLAND, M. V. Saving timber from the powder post beetle. <Rural New Yorker, 1 March, 1902, p. 145.
1379. SLINGERLAND, M. V. Whitewash for 17-year locusts. <Rural New Yorker, 15 March, 1902, p. 189.
1380. SLINGERLAND, M. V. Spring wheat and the Hessian fly. <Rural New Yorker, 29 March, 1902, p. 228.
1381. SLINGERLAND, M. V. Insects in rope. <Rural New Yorker, 29 March, 1902, p. 228.
1382. SLINGERLAND, M. V. Dipping peach roots for borers. <Rural New Yorker, 29 March, 1902, p. 228.
1383. SLINGERLAND, M. V. Cure for powder post beetles. <Rural New Yorker, 29 March, 1902, p. 227.
1384. SLINGERLAND, M. V. Potash and caterpillars. <Rural New Yorker, 29 March, 1902, p. 227.
1385. SLINGERLAND, M. V. Lime, salt, and sulphur for San Jose scale. <Rural New Yorker, 5 April, 1902, p. 246.
1386. SLINGERLAND, M. V. What the plum curculio does. <Rural New Yorker, 7 June, 1902, p. 400.
1387. SLINGERLAND, M. V. Round-headed apple borer. <Rural New Yorker, 21 June, 1902, p. 432.
1388. SLINGERLAND, M. V. Insect control in general. <Country Gentleman, 26 June, 1902, p. 537; 3 July, 1902, p. 557.
1389. SLINGERLAND, M. V. Trap-lanterns or "moth catchers." < Bull. No. 202, Cornell Univ. Agric. Exp. Station, June, 1902, pp. 199-241, 2 figs.
1390. SLINGERLAND, M. V. Apple curculio attacking pears. <Rural New Yorker, 5 July, 1902, p. 464.
1391. SLINGERLAND, M. V. What cure for fleas. <Rural New Yorker, 27 September, 1902, p. 655.

1392. SLINGERLAND, M. V. How to kill apple borers. <Rural New Yorker, 11 October, 1902, p. 689.
1393. SLINGERLAND, M. V. Fighting wireworms. <Rural New Yorker, 8 November, 1902, p. 732.
1394. SLINGERLAND, M. V. The strawberry leaf-roller. <Rural New Yorker, 22 November, 1902, p. 784.
1395. SLINGERLAND, M. V. Wire cages for apple borers. <Rural New Yorker, 13 December, 1902, p. 830.
1396. SLINGERLAND, M. V. Insect control. <Rept. N. Y. State Fruit Growers' Assn. f. 1902, pp. 252-257.
1397. SLINGERLAND, M. V. Entomology. <Proc. West. N. Y. Hort. Soc. f. 1902 (1902), pp. 46-50, 4 figs.
1398. SLINGERLAND, M. V. The apple-tree borer. <Rural New Yorker, 16 May, 1903, p. 372.
1399. SLINGERLAND, M. V. The cabbage maggot. <Rural New Yorker, 6 June, 1903, p. 420.
1400. SLINGERLAND, M. V. Boll-worm in tomatoes. <Rural New Yorker, 4 July, 1903, p. 486.
1401. SLINGERLAND, M. V. Did ants injure the corn. <Rural New Yorker, 11 July, 1903, p. 499.
1402. SLINGERLAND, M. V. Where potato-beetles come from. <Rural New Yorker, 11 July, 1903.
1403. SLINGERLAND, M. V. Strawberry leaf-roller. <Rural New Yorker, 25 July, 1903, p. 532.
1404. SLINGERLAND, M. V. Life-cycle of potato beetles. <Rural New Yorker, 25 July, 1903, p. 532.
1405. SLINGERLAND, M. V. Destroying plant lice in orchards. <American Agriculturist, 1 August, 1903, p. 87.
1406. SLINGERLAND, M. V. The story of the white grub. <Rural New Yorker, 8 August, 1903, p. 564.
1407. SLINGERLAND, M. V. Cottony maple scale. <Rural New Yorker, 15 August, 1903, p. 580.
1408. SLINGERLAND, M. V. Chiggers or red mites. <Rural New Yorker, 29 August, 1903, p. 612, 1 fig.
1409. SLINGERLAND, M. V. Work of fall web-worm. <Rural New Yorker, 12 September, 1903, p. 644.
1410. SLINGERLAND, M. V. Arsenite of soda for spraying. <Rural New Yorker, 19 September, 1903, p. 658.
1411. SLINGERLAND, M. V. Woolly aphid. <Rural New Yorker, 19 September, 1903, p. 660.
1412. SLINGERLAND, M. V. Salt in the lime-sulphur spray. <Rural New Yorker, 10 October, 1903, p. 707.

1413. SLINGERLAND, M. V. More about woolly aphid. <Rural New Yorker, 24 October, 1903, p. 738.
1414. SLINGERLAND, M. V. The scale on fallen leaves. <Rural New Yorker, 7 November, 1903, p. 771.
1415. SLINGERLAND, M. V. Apple curculio. <Rural New Yorker, 28 November, 1903, p. 820.
1416. SLINGERLAND, M. V. A big fight against grape pests. <Proc. West. N. Y. Hort. Soc. f. 1903 (1903), pp. 75-78.
1417. SLINGERLAND, M. V. The grape leaf-hopper. <Bull. No. 215, Cornell Agric. Exp. Station, January, 1904, pp. 83-102, figs. 15-37.
1418. SLINGERLAND, M. V. The grape leaf-folder. <Rural New Yorker, 30 January, 1904, p. 68.
1419. SLINGERLAND, M. V. Kerosene in Bordeaux mixture. <Rural New Yorker, 20 February, 1904, p. 132.
1420. SLINGERLAND, M. V. How to fight the bud-moth. <Rural New Yorker, 12 March, 1904, p. 209.
1421. SLINGERLAND, M. V. Destroying onion maggots. <American Agriculturist, 19 March, 1904, p. 337.
1422. SLINGERLAND, M. V. Insects working in pop-corn. <Rural New Yorker, 26 March, 1904, p. 262.
1423. SLINGERLAND, M. V. Fumigation in nursery and orchard. <American Agriculturist, 2 April, 1904, p. 400.
1424. SLINGERLAND, M. V. The cabbage maggot and its handling. <Rural New Yorker, 9 April, 1904, p. 305.
1425. SLINGERLAND, M. V. The cauliflower root-maggot. <Rural New Yorker, 23 April, 1904, p. 345.
1426. SLINGERLAND, M. V. Making a kerosene emulsion. <Rural New Yorker, 30 April, 1904, p. 364.
1427. SLINGERLAND, M. V. Insect photography. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 5-13, 1 pl.
1428. SLINGERLAND, M. V. Some serious insect depredations in New York in 1903. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 69-73, 1 pl.
1429. SLINGERLAND, M. V. Notes and new facts about some New York grape pests. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 73-78, 1 fig.
1430. SLINGERLAND, M. V. Save the quinces and plums. <American Agriculturist, 14 May, 1904, p. 551.
1431. SLINGERLAND, M. V. How to kill canker-worms. <Rural New Yorker, 28 May, 1904, p. 428.

1432. SLINGERLAND, M. V. Fighting the cabbage maggot. <Rural New Yorker, 21 May, 1904, p. 413.
1433. SLINGERLAND, M. V. Wireworms and beans. <Rural New Yorker, 4 June, 1904, p. 444.
1434. SLINGERLAND, M. V. Scale of fruit and forest trees. <American Agriculturist, 2 July, 1904, p. 3.
1435. SLINGERLAND, M. V. Fighting the Buffalo carpet beetle. <Rural New Yorker, 6 August, 1904, p. 508.
1436. SLINGERLAND, M. V. White grubs in strawberries. <Rural New Yorker, 29 October, 1904, p. 780.
1437. SLINGERLAND, M. V. The grape-berry moth. <Bull. No. 223, Cornell Univ. Agric. Exp. Station, November, 1904, pp. 43-60, 13 figs.
1438. SLINGERLAND, M. V. Salt for quince borers. <Rural New Yorker, 5 November, 1904, p. 796.
1439. SLINGERLAND, M. V. Sprays for southern vegetables. <Rural New Yorker, 12 November, 1904, p. 811.
1440. SLINGERLAND, M. V. Fighting scale in young orchards. <Rural New Yorker, 19 November, 1904, p. 825.
1441. SLINGERLAND, M. V. Our insect enemies in 1903. <Proc. West. N. Y. Hort. Soc. f. 1904 (1904), pp. 72-77.
1442. SLINGERLAND, M. V., and J. CRAIG. The grape root-worm. <Bull. No. 208, Cornell Agric. Exp. Station, December, 1902, pp. 177-200, 16 figs.
1443. SLINGERLAND, M. V., and P. B. FLETCHER. The ribbed cocoon-maker of the apple. <Bull. No. 214, Cornell Agric. Exp. Station, December, 1903, pp. 69-78, figs. 6-14.
1444. SLINGERLAND, M. V., and F. JOHNSON. Two grape pests. <Bull. No. 224, Cornell Agric. Exp. Station, November, 1904, pp. 65-73, 4 figs.
1445. SMITH, J. B. Truth about the San Jose scale. <Amer. Agriculturist, 6 January, 1900, pp. 2 and 8.
1446. SMITH, J. B. Report of the State Entomologist. <Rept. State Bd. Agric. New Jersey f. 1899 (1900), pp. 23-28.
1447. SMITH, J. B. The role of insects in the forest. <Ann. Rept. State Geol. N. Jer. f. 1899 (1900), pp. 205-232, 8 figs., 2 pls.
1448. SMITH, J. B. Wood ash lye for scale. <Rural New Yorker, 31 March, 1900, p. 222.
1449. SMITH, J. B. Potash for San Jose scale. <Rural New Yorker, 31 March, 1900, p. 222.

1450. SMITH, J. B. The apple plant louse. <Bull. No. 143, New Jersey Agric. Exper. Sta., March, 1900, pp. 23, figs. 32. Full account of *Aphis malii* Fab.
1451. SMITH, J. B. Directions for treating the tulip scale. <Entom. Cir. No. 1, N. J. State Bd. Agric., 1900, pp. 2.
1452. SMITH, J. B. Arsenical poisons and how to use them. <Entom. Cir. No. 2, N. J. State Bd. Agric., 1900, pp. 2.
1453. SMITH, J. B. Kerosene as an insecticide. <Entom. Cir. No. 3, N. J. State Bd. Agric., 1900, pp. 2.
1454. SMITH, J. B. Cottony maple scale. <Entom. Cir. No. 4, N. J. State Bd. Agric., 1900, pp. 2.
1455. SMITH, J. B. Whale oil soap and its uses. <Entom. Cir. No. 5, N. J. State Bd. Agric., 1900, pp. 2.
1456. SMITH, J. B. How to treat the San Jose scale. <Entom. Cir. No. 6, N. J. State Bd. Agric., 1900, pp. 2.
1457. SMITH, J. B. Elm leaf beetle. <Entom. Cir. No. 7, N. J. State Bd. Agric., 1900, pp. 2.
1458. SMITH, J. B. The bag-worm or drop-worm. <Entom. Cir. No. 8, N. J. State Bd. Agric., 1900, pp. 2.
1459. SMITH, J. B. Vaporer moth. <Entom. Cir. No. 9, N. J. State Bd. Agric., 1900, pp. 2.
1460. SMITH, J. B. Cabbage worms. <Entom. Cir. No. 10, N. J. State Bd. Agric., 1900, pp. 2.
1461. SMITH, J. B. Cutworms. <Entom. Cir. No. 11, N. J. State Bd. Agric., 1900, pp. 2.
1462. SMITH, J. B. Codling moth. <Entom. Cir. No. 12, N. J. State Bd. Agric., 1900, pp. 3.
1463. SMITH, J. B. Arsenate of lead. <Entom. Cir. No. 13, N. J. State Bd. Agric., 1900, pp. 2.
1464. SMITH, J. B. Apple borer. <Entom. Cir. No. 14, N. J. State Bd. Agric., 1900, pp. 2.
1465. SMITH, J. B. Lime as an insecticide. <Entom. Cir. No. 15, N. J. State Bd. Agric., 1900, pp. 2.
1466. SMITH, J. B. Tobacco as an insecticide. <Entom. Cir. No. 16, N. J. State Bd. Agric., 1900, pp. 2.
1467. SMITH, J. B. The plum curculio. <Entom. Cir. No. 17, N. J. State Bd. Agric., 1900, pp. 2.
1468. SMITH, J. B. Asparagus beetles. <Entom. Cir. No. 18, N. J. State Bd. Agric., 1900, pp. 2.
1469. SMITH, J. B. Scurfy scale. <Entom. Cir. No. 19, N. J. State Bd. Agric., 1900, pp. 2.

1470. SMITH, J. B. Oyster-shell bark-louse. <Entom. Cir. No. 20, N. J. State Bd. Agric., 1900, pp. 2.
1471. SMITH, J. B. San Jose scale and other insects. <Rural New Yorker, 13 October, 1900, pp. 686-687.
1472. SMITH, J. B. Crude petroleum versus the San Jose or pernicious scale. <Bull. No. 146, N. J. Agric. Exp. Sta., November 1, 1900, pp. 20.
1473. SMITH, J. B. The Angoumois moth in New Jersey. <Rural New Yorker, 17 November, 1900, pp. 765-766.
1474. SMITH, J. B. The Angoumois grain moth. <Bull. No. 147, N. J. Agric. Exp. Station, December, 1900, pp. 8, 2 figs.
1475. SMITH, J. B. Do bees damage fruit? <Rural New Yorker, 15 December, 1900, p. 830.
1476. SMITH, J. B. Insects injurious to fruits. <Amer. Agriculturist, 22 December, 1900, p. 645.
1477. SMITH, J. B. Two strawberry pests. <Bull. No. 149, N. J. Agric. Exp. Sta., March, 1901, pp. 17, 2 pls.
Treats of *Phoxopteris comptana* Froel. and *Aphis forbesi* Weed.
1478. SMITH, J. B. Report of the entomological department for 1900. <Ann. Rept. New Jersey Agric. Exp. Station f. 1900 (1901), pp. 477-572, 10 figs.
1479. SMITH, J. B. The mosquito pest and how to abate it. <Rept. State Board Agric. N. J., 1901, pp. 245-249.
1480. SMITH, J. B. The Entomologist's experiment orchard. <Bull. No. 155, New Jersey Agric. Exp. Sta., 13 January, 1902, pp. 71.
1481. SMITH, J. B. Modern methods of studying and dealing with horticultural insect pests. <Rept. N. J. Hortic. Soc., January, 1902, pp. 65-75, 1 pl.
1482. SMITH, J. B. Report of the entomological department for 1901. <Ann. Rept. New Jersey Agric. Exp. Station f. 1901 (1902), pp. 461-587, 36 figs.
1483. SMITH, J. B. Practical suggestions for mosquito control. <New Jersey Agric. Exp. Station, 16 May, 1902, pp. 4.
1484. SMITH, J. B. Nursery inspection and notes on crude petroleum. <Proc. 14th Ann. Convention Assoc. Agric. Coll. and Exper. Stations, May, 1902, pp. 165-166 and 176.
1485. SMITH, J. B. A fight against mosquitoes. <Rural New Yorker, 7 June, 1902, p. 399.
1486. SMITH, J. B. The rose scale, *Diaspis rosæ* Bouché. <Bull. No. 159, N. J. Agric. Exp. Sta., June, 1902, pp. 14, 6 figs.
A full account of the species.

1487. SMITH, J. B. Treatment for San Jose scale in orchard and nursery. <Bull. No. 90, Penna. Dept. Agric., July, 1902, pp. 33, 7 figs.
1488. SMITH, J. B. The salt-marsh mosquito. <Special Bull. T. N. J. Agric. Exp. Sta., 8 July, 1902, 10 pp., 2 figs. Treats of *Culex sollicitans* Wlk.
1489. SMITH, J. B. Lime, salt, and sulphur wash. <Bull. No. 162, N. J. Agric. Exp. Sta., November, 1902, pp. 8, 2 figs.
1490. SMITH, J. B. Soap for San Jose scale. <Rural New Yorker, 8 November, 1902, p. 752.
1491. SMITH, J. B. Concerning certain mosquitoes. <Science, 1902, pp. 13-15.
1492. SMITH, J. B. Report of the entomological department for 1902. <New Jersey Agric. Exp. Sta., February, 1903, pp. 425-593, figs. 29.
1493. SMITH, J. B. Strawberries and white grubs. <Rural New Yorker, 11 April, 1903, p. 281.
1494. SMITH, J. B. Recent observations and experiments with insecticides for the San Jose scale. <Bull. No. 123, Off. Exp. Stations, U. S. Dept. Agric., May, 1903, pp. 126-128.
1495. SMITH, J. B. Mosquitocides. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 96-108.
1496. SMITH, J. B. Insects injurious in cranberry culture. <Farmers' Bull. No. 178, U. S. Dept. Agric., August, 1903, pp. 31, 12 figs.
1497. SMITH, J. B. Insecticides and their uses. <Bull. No. 169, New Jersey Agric. Exp. Station, December, 1903, pp. 27.
1498. SMITH, J. B. The law and the horticulturist. <Proc. N. J. State Hortic. Soc. f. 1903, pp. 69-80.
1499. SMITH, J. B. Concerning mosquito migrations. <Science, No. 467, 1903, pp. 761-764.
1500. SMITH, J. B. Report of the State entomologist. <New Jersey Agric. Rept. f. 1902-3 (1903), pp. 101-108.
1501. SMITH, J. B. The common mosquitoes of New Jersey. <Bull. No. 171, N. J. Agric. Exp. Sta., February, 1904, pp. 40, 17 pls.
1502. SMITH, J. B. Caustic soda as a remedy for scale. <American Agriculturist, 5 March, 1904, p. 273.
1503. SMITH, J. B. Insecticide experiments in 1904. <Bull. No. 178, N. J. Agric. Exp. Station, November, 1904, pp. 12.
1504. SMITH, J. B. San Jose scale on grapevines. <American Agriculturist, 19 November, 1904, p. 459.
1505. SMITH, J. B. Report of the State entomologist. <New Jersey Agric. Rept. f. 1903-4 (1904), pp. 333-344.

1506. SMITH, J. B. Report of the Entomological Department of the New Jersey Agric. College Experiment Station f. year 1903 (1904), pp. 555-659, 32 figs.
1507. SMITH, R. I. Some common insects injurious to the apple. <Bull. No. 13, Georgia State Board of Entomology, October, 1904, pp. 9, figs. 7.
1508. SMITH, W. B. Insect enemies to fruit and their remedies. <Proc. Columbus Hort. Soc., 1901, pp. 58-62.
1509. SNOW, W. A., and H. MILLS. The destructive Diplosis of the Monterey pine. <Entom. News, June, 1900, pp. 489-494, 1 pl.
Treats of *Diplosis pini-radiatae* Snow.
1510. SNYDER, A. H. Insects injurious to fruit. <Proc. Columbus Hort. Soc., 1901, pp. 54-58.
1511. SOUTHWICK, J. M. The San José scale. <Bull. No. 7, Rhode Island State Bd. Agric., September, 1900, pp. 6.
1512. SOUTHWICK, J. M. Insects injurious to the apple tree. <Rhode Island State Bd. Agric., September, 1900, pp. 12.
A list of the commoner species with brief notice of remedies.
1513. SPENCER, J. Sheep scab. <Bull. No. 124, Va. Agric. Exp. Sta., May, 1901, pp. 41-46, 3 figs.
1514. SPENCER, J. Mange in horses. <Bull. No. 125, Va. Agric. Exp. Sta., June, 1901, pp. 49-52, 2 figs.
1515. STEDMAN, J. M. Spraying for orchards. <Trans. Missouri Hortic. Soc. f. 1899 (1900), pp. 396-402.
1516. STEDMAN, J. M. Moth catchers. <Colman's Rural World, 17 April, 1901, p. 123.
1517. STEDMAN, J. M. Moths and moth-catchers. <Kansas Farmer, 18 April, 1901, p. 382.
1518. STEDMAN, J. M. Moths and moth-traps. <Western Fruit Grower, May, 1901.
1519. STEDMAN, J. M. The leaf-roller on apple, pear, peach, plum, cherry, and other fruit. <Colman's Rural World, 3 July, 1901, p. 209.
1520. STEDMAN, J. M. Moth catchers. <Colman's Rural World, 17 July, 1901, pp. 223, 225, 230.
1521. STEDMAN, J. M. The more important insects injurious to wheat in Missouri. <34th Ann. Rept. Missouri St. Bd. Agric. f. 1902 (1902), pp. 55-141, 42 figs.
1522. STEDMAN, J. M. Some orchard pests. <34th Ann. Rept. Missouri St. Bd. Agriculture f. 1902 (1902), pp. 220-225.

1523. STEDMAN, J. M. Two insects injurious to the strawberry. <Bull. 54, Mo. Agric. Exp. Station, 1903, pp. 187-210, 5 figs. Treats of *Harpiphorus maculatus* Nort. and *Phoxopteris comptana* Froel.
1524. STEDMAN, J. M. The "sting" in the apple. <Bull. No. 64, Mo. Agric. Exp. Station, July, 1904, pp. 24, 10 figs.
1525. STEDMAN, J. M. Status of chinch bug disease. <Prairie Farmer, 22 December, 1904.
1526. STEPHENS, E. F. Fighting insect enemies. <Nebraska Farmer, 17 May, 1900.
1527. STEPHENS, E. F. Grasshoppers. <Northwestern Agriculturist, 1 May, 1901, p. 177.
1528. STEPHENS, E. F. Spraying for codlin moth and fungous diseases. <Prairie Farmer, 11 May, 1901, p. 2.
1529. STEPHENS, E. F. Spraying fruit trees. <Nebraska Farmer, 22 May, 1902.
1530. STEPHENS, E. F. Spraying. <Prairie Farmer, 14 May, 1903.
1531. STERNE, A. E. The peach-tree root-aphis. <American Agriculturist, 6 August, 1904, p. 102.
1532. STEWART, J. H. Treatment for San Jose scale. <Bull. No. 78, West Virginia Agric. Exp. Sta., 1902, pp. 213-230, 6 figs.
1533. STILES, E. P. The pecan husk worm. <Farm and Ranch, 13 December, 1902.
1534. STONE, J. L. A trap for the Hessian fly. <Rural New Yorker, September 7, 1901, p. 611.
1535. STONE, G. E., H. T. FERNALD, and S. T. MAYNARD. Fungicides, insecticides, and spraying calendar. <Bull. No. 80, Mass. Agric. Exp. Station, March, 1902, pp. 15.
1536. STONE, G. E., H. T. FERNALD, and F. A. WAUGH. Fungicides insecticides, and spraying calendar. <Bull. No. 96, May, 1904, pp. 16.
1537. STORY, C. M. The "cotton worm." <Am. Inventor, September 1, 1904, 3 figs. Treats of *Pulvinaria innumerabilis* Rathv.
1538. STRACHAN, H. A link in the mosquito-malaria alliance. <N. Y. Med. Journal, 8 December, 1900, p. 1029.
1539. STUART, W. Injurious effects of the round-headed apple-tree borer. <Ann. Rept. Vermont Agric. Exp. Station f. 1903, pp. 204-208.
1540. STUBBS, W. C. The sugar cane borer. <Louisiana Planter, 12 January, 1901, pp. 25-28.
1541. STUBBS, W. C. The Mexican cotton-boll weevil. <Louisiana Station Circular No. 1, 1903, pp. 10, 3 figs., 1 map.

1542. STUBBS, W. C., and H. A. MORGAN. Cane borer, *Diatraea saccharalis*. <Bull. No. 70, s. s., Louisiana Agric. Exp. Sta., October, 1902, pp. 888-927, 11 figs.
1543. STUBENRAUCH, A. V. Important details of spraying. <Bull. No. 68, Ill. Agric. Exp. Sta., January, 1902, pp. 157-187, 6 pls.
1544. STUBENRAUCH, J. W. Cotton insect and Texas farmers. <Rural New Yorker, 16 July, 1904, p. 539.
1545. SUMMERS, H. E. Miscellaneous insects. <Bull. No. 49, Iowa Agric. Exp. Sta., June, 1900, pp. 1-9, 7 figs.
Notes on *Ceresa bubalis* Say, *Œcanthus niveus* DeG., and *Leptocoris trivittatus* Say.
1546. SUMMERS, H. E. Insecticide methods. <Bull. No. 50, Iowa Agric. Exp. Sta., June, 1900, pp. 13-23.
1549. SUMMERS, H. E. Scurfy scale. <Wisconsin Farmer, 13 June, 1901, p. 282. <Wallace's Farmer, 22 June, 1900, p. 647.
1560. SUMMERS, H. E. The benefit of the San Jose scale to Iowa. <Trans. Iowa St. Hort. Soc. f. 1900 (1901), pp. 142-144.
1561. SUMMERS, H. E. A fight against chinch bugs. <Rural New Yorker, 28 June, 1902, p. 446.
1562. SUMMERS, H. E. Systematic prevention of apple diseases. <Trans. Iowa Hortic. Soc. f. 1901 (1902), pp. 49-53.
1563. SUMMERS, H. E. The striped cottonwood leaf beetle. <Wallace's Farmer, 28 June, 1901, p. 825.
1564. SURFACE, H. A. Insects injurious to cucurbitaceous plants. <Bull. No. 96, Penna. Dept. Agric., 1902, pp. 30, 47 figs.
1565. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 1. <Penna. Dept. Agric. May, 1903.
1566. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 2. <Penna. Dept. Agric., June, 1903.
1567. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 3. <Penna. Dept. Agric., July, 1903.
1568. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 4. <Penna. Dept. Agric., August, 1903, 3 figs.
1569. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 5. <Penna. Dept. Agric., September, 1903, 2 figs.
1570. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 6. <Penna. Dept. Agric., October, 1903.
1571. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 7. <Penna. Dept. Agric., November, 1903.
1572. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 9. <Penna. Dept. Agric., January, 1904.

1573. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, No. 10. <Penna. Dept. Agric., February, 1904, pp. 32, 2 pls.
1574. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. I, Nos. 11 and 12. <Penna. Dept. Agric., April, 1904, 8 figs.
1575. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 2. <Penna. Dept. Agric., June, 1904, 2 pls.
1576. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 3. <Penna. Dept. Agric., July, 1904.
1577. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 4. <Penna. Dept. Agric., August, 1904.
1578. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 5. <Penna. Dept. Agric., September, 1904.
1579. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 6. <Penna. Dept. Agric., October, 1904.
1580. SURFACE, H. A. Monthly Bulletin, Division of Zoology, Vol. II, No. 7. <Penna. Dept. Agric., November, 1904.
1581. SURFACE, H. A. Lime and sulphur for San Jose scale. <Rural New Yorker, 12 November, 1904, p. 813.
1582. SUTTON, F. B. Killing the San Jose scale. <Practical Farmer, 27 December, 1902.
1583. SWEZEY, O. H. Observations on the life history of *Liburnia campestris*, with notes on a Hymenopterous parasite infesting it. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 43-46.
1584. SYMONS, T. B. Entomological notes for the year in Maryland. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 97-99.
1585. TAFT, L. R. Treatment of oyster-shell scale. <American Agriculturist, 10 May, 1902, p. 646.
1586. TAFT, L. R., and C. D. SMITH. Spraying calendar. <Special Bull. No. 19, Mich. Agric. Exp. Station, 1903, folio.
1587. TAPLIN, W. H. Thrips on smilax. <Weekly Florists' Review, 4 August, 1904.
1588. TAYLOR, E. R. Using bisulphide of carbon. <Amer. Miller, 1 January, 1904.
1589. THORNE, C. E. The Hessian fly. <Press Bull. No. 227, Ohio Agric. Exp. Station, 1 September, 1901, pp. 2.
1590. THORNE, C. E. Fighting the chinch bug. <Farmer's Home Journal, 5 July, 1902.
1591. THORNE, C. E. How to circumvent the Hessian fly. <Prairie Farmer, 13 September, 1902.

1592. THORNE, C. E. The Hessian fly in Ohio. <Bull. No. 136, Ohio Agric. Exp. Station, December, 1902, pp. 24, 4 figs.
1593. TITUS, E. S. G. Insects other than the codling-moth injurious to the fruit of the apple. <Trans. Ill. State Hortic. Soc. f. 1902 (1903), pp. 158-162.
1594. TITUS, E. S. G. Some preliminary notes on the clover-seed chalcis-fly. <Bull. No. 44, Div. Ent., U. S. Dept. Agric., April, 1904, pp. 77-80.
1595. TITUS, E. S. G., and F. C. PRATT. Catalogue of the exhibit of economic entomology at the Louisiana Purchase Exposition, St. Louis, Mo., 1904. <Bull. No. 47, Div. Entom., Dept. Agric., June, 1904, pp. 155.
1596. TOWNSEND, C. O. The effect of hydrocyanic-acid gas upon grains and other seeds. <Bull. No. 75, Maryland Agric. Exp. Station, June, 1901, pp. 183-198, 5 figs.
1597. TRAPHAGEN, F. W. Paris green and London purple in Montana. <Bull. No. 24, Montana Agric. Exp. Station, April, 1900 (February, 1901), pp. 1-7.
Tests as to purity.
1598. TUCKER, E. S. Some insect inquiries answered. <Kansas Farmer, 23 June, 1904, 7 figs.
1599. TUCKER, E. S. Replies to inquiries about insects. <Kansas Farmer, 11 August, 1904, 5 figs.
1600. TUCKER, E. S. Questions answered regarding grain weevils. <Kansas Farmer, 24 November, 1904.
1601. TWEDDLE, J. Report of committee on codling moth for the year 1901. <33d Ann. Rept. Ontario Fruit Growers' Assoc. f. 1901 (1902), pp. 7-9.
1602. TWEDDLE, J. Report of the committee on the codling moth. <34th Ann. Rept. Fruit Growers' Assn., Ontario, 1902 (1903), p. 81.
1603. TWEDDLE, J. Spraying apple trees. <34th Ann. Rept. Fruit Growers' Assn., Ontario, 1902 (1903), pp. 93-95.
1604. TWIGHT, E. H. Fighting the Phylloxera. <Pacific Rural Press, 3 September, 1904.
1605. UDE, H. Insect enemies of tobacco. <American Agriculturist, 16 August, 1902, p. 159.
1606. UNDERWOOD, W. L. Mosquitoes, and suggestions for their extermination. <Popular Science Monthly, 1903, pp. 453-466, 15 figs.
1607. VAN ALSTYNE, E. Twelve years' experience in spraying. <Rept. Bureau of Farmers' Institutes, N. Y., 1900, pp. 52-58.

1608. VAN DEMAN, H. E. The apple tree borer. <Rural New Yorker, 22 September, 1900, p. 641.
1609. VAN DEMAN, H. E. A new chapter on the San Jose scale. <Rural New Yorker, 30 November, 1901, p. 809.
1610. VAN DEMAN, H. E. Two insect friends from abroad. <Rural New Yorker, 7 December, 1901, p. 818.
1611. VAN DEMAN, H. E. Voracity of the Chinese ladybird beetle. <Rural New Yorker, 16 August, 1902, p. 559.
1612. VAN DEMAN, H. E. Watch for the borers. <Prairie Farmer, 10 September, 1903.
1613. VAN SLYKE, L. L., and W. H. ANDREWS. Report of analyses of Paris green and other insecticides in 1901. <Bull. No. 204, N. Y. State Agric. Exp. Station, December, 1901, pp. 245-250.
1614. VAN SLYKE, L. L., and W. H. ANDREWS. Report of analyses of Paris green and other insecticides in 1902. <Bull. No. 222, N. Y. State Agric. Exp. Station, December, 1902, pp. 263-268.
1615. VEAZIE, H. A. Some observations on the varieties and habits of the mosquitoes of New Orleans, and the remedies. <New Orleans Med. and Surgical Journal, September 1901, pp. 155-177, 16 figs.
1616. VINCENT, E. L. End of the maple tree worm. <Amer. Agric., 1 November, 1900, p. 422.
1617. VOLCK, W. H. Spraying with distillates. <Bull. No. 153, Calif. Agric. Exp. Station, 1903, pp. 31, 5 figs.
1618. VOLCK, W. H. Sulphur sprays for the red spiders. <Bull. No. 154, Calif. Agric. Exp. Station, 1903, pp. 11, 4 figs.
1619. VOLCK, W. H. The codling moth work at Watsonville. <Pacific Rural Press, 6 August, 1904.
1620. VOLCK, W. H. Codling moth investigation. <Calif. Fruit Grower, 26 November, 1904.
1621. WADHAMS, S. W. A trap for the Hessian fly. <Rural New Yorker, 7 September, 1901, p. 611.
1622. WADHAMS, S. W. Traps for the Hessian fly. <Rural New Yorker, 5 October, 1901, pp. 674-675.
1623. WADHAMS, S. W. Killing peach tree borers with coal tar. <Amer. Agriculturist, 29 March, 1902, p. 467.
1624. WAITE, M. B. Bees as blight distributors. <Amer. Agric., 27 July, 1901, p. 79.
Carrying pear blight.
1625. WALKER, E. Notes on celery. <Bull. No. 64, Ark. Agric. Exp. Sta., December, 1900, pp. 77-93.
Contains a few notes on insects injurious to celery.

1626. WALKER, E. Some muskmelon experiments. <Bull. No. 69, Arkansas Agric. Exp. Station, 1901 (February, 1902), pp. 81-84.
Notes on the common insect enemies.
1627. WALKER, E. Why apple trees fail. <Bull. No. 71, Arkansas Agric. Exp. Station, May, 1902, pp. 32, 16 figs.
Notes on common apple enemies.
1628. WALKER, E. M. Report on insects of the year. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 39-41, 5 figs.
1629. WALL, W. B. Parasites of injurious insects. <Calif. Fruit Grower, 13 June, 1903.
1630. WARD, H. B. Mosquitoes in relation to human pathology. <Wood's Ref. Handb. Med. Sci., V, pp. 866-873, 12 figs., 1902.
1631. WASHBURN, F. L. Insects notably injurious in 1902. <Bull. No. 77, Minn. Agric. Exp. Station, November, 1902, pp. 74, 62 figs.; also as Seventh Ann. Rept. State Entomologist of Minnesota, 1902.
1632. WASHBURN, F. L. The Criddle mixture. <Press Bull. No. 16, Minn. Agric. Exp. Station, May, 1903, 4 pp.
1633. WASHBURN, F. L. Distribution of the chinch bug in Minnesota. <Bull. No. 40, Div. Ent., U. S. Dept. Agric., August, 1903, pp. 32-34, 1 map.
1634. WASHBURN, F. L. A criticism upon certain codling moth observations. <Bull. No. 40, Div. Ent., U. S. Dept. Agric., August, 1903, pp. 65-67.
1635. WASHBURN, F. L. Hessian fly reared in the laboratory. <Can. Entom., 1903, p. 316.
1636. WASHBURN, F. L. Injurious insects of 1903. <Bull. No. 84, Minn. Agric. Exp. Station, 1903, pp. 184, figs. 119, 1 pl.; also as Eighth Annual Rept. State Entomologist of Minnesota, 1903.
1637. WASHBURN, F. L. The Mediterranean flour moth. <Spec. Rept. State Entom. Minn., February, 1904, 33 pp., 20 figs., 1 pl.
1638. WASHBURN, F. L. Insects of the year in Minnesota, with data on the number of broods of *Cecidomyia destructor* Say. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 99-102.
1639. WASHBURN, F. L. *Cryptorhynchus lapathi* in Minnesota. <Psyche, 1904, p. 104.

1640. WASHBURN, F. L. A destructive beetle—a warning to nurserymen and others in planting windbreaks. <Minn. State Hortic. Soc. f. 1904 (1904), pp. 414-416, 2 figs.
1641. WASHBURN, F. L. Ninth Ann. Rept. State Entomologist Minnesota f. year 1904. <St. Anthony Park, Minn., December, 1904, pp. 197, 178 figs., 2 pls.
1642. WATERS, H. J. A fight against chinch bugs. <Rural New Yorker, 28 June, 1902, p. 446.
1643. WATERS, H. J. Fighting chinch bugs in Missouri. <Colman's Rural World, 2 July, 1902.
1644. WAUGH, F. A. Killing oyster-shell bark-lice. <American Agriculturist, 2 May, 1903, p. 504.
1645. WEBB, W. Kerosene and lime. <Rural New Yorker, 28 November, 1903, p. 820.
1646. WEBSTER, F. M. How insects are studied at the Ohio Agricultural Experiment Station. <Bull. No. 114, Ohio Agric. Exp. Sta., January, 1900, pp. 165-173, 2 pls.
1647. WEBSTER, F. M. Inquiries answered. <Ohio Farmer, 22 February, 1900.
Note on *Aphis mali* Fab., and Hessian fly.
1648. WEBSTER, F. M. The grape-cane gall maker and its enemies. <Bull. No. 116, Ohio Agric. Exp. Sta., February, 1900, pp. 195-198, 1 pl.
1649. WEBSTER, F. M. The Hessian fly in northeastern Ohio. <Ohio Farmer, 17 May, 1900, p. 438.
1650. WEBSTER, F. M. The spring canker worm. <Ohio Farmer, 14 June, 1900.
1651. WEBSTER, F. M. The Hessian fly in 1899 and 1900. <Bull. No. 119, Ohio Agric. Exp. Sta., June, 1900, pp. 239-247, 1 map.
1652. WEBSTER, F. M. The 17-year locust in Ohio. <Ohio Farmer, 5 July, 1900.
1653. WEBSTER, F. M. Chinch bugs in Ohio. <Prairie Farmer, 21 July, 1900.
1654. WEBSTER, F. M. *Harpalus caliginosus* as a strawberry pest, with notes on other phytophagous Carabidae. <Can. Ent., September, 1900, pp. 265-271, 1 fig.
1655. WEBSTER, F. M. Insects of the year in Ohio. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 84-90.
1656. WEBSTER, F. M. Inquiries regarding wheat insects. <Ohio Farmer, 8 November, 1900, p. 345.
Notes on wheat stem maggot and Hessian fly.

1657. WEBSTER, F. M. The grain weevil. <Ohio Farmer, 22 November, 1900, p. 385.
1658. WEBSTER, F. M. The native home of the San Jose scale. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 55-56.
1659. WEBSTER, F. M. Some notes on the larval habits of the gray hair-streaked butterfly. <Thirtieth Ann. Rept. Entom. Soc. Ontario f. 1899 (1900), pp. 56-57.
1660. WEBSTER, F. M. Notes on the occurrence of brood XX of the periodical Cicada, *Cicada septendecim*, in Ohio in 1900. <Entom. News, December, 1900, pp. 638-640, 1 fig.
1661. WEBSTER, F. M. *Crioceris asparagi*: the founding of a colony. <Entom. News, December, 1900, p. 640.
1662. WEBSTER, F. M. Some experiments in the exportation of beneficial insects. <Can. Entom., February, 1901, pp. 38-60.
1663. WEBSTER, F. M. Results of some experiments in protecting apples from the attacks of the second brood of codling moth. <31st Ann. Rept. Ent. Soc. Ontario, February, 1901, pp. 37-38.
1664. WEBSTER, F. M. Results of some applications of crude petroleum to orchard trees. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 59-61.
1665. WEBSTER, F. M. Notes on two longicorn beetles affecting growing nursery stock. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 81-84, 4 figs. <Journ. Columbus Hortic. Soc., December, 1900, pp. 6, 4 figs.
1666. WEBSTER, F. M. Observations on several species of *Dermestidae*. <31st Ann. Rept. Entom. Soc. Ontario, February, 1901, pp. 85-86.
1667. WEBSTER, F. M. Hessian fly in the middle west. <Rural New Yorker, 23 March, 1901, p. 219.
1668. WEBSTER, F. M. A promising destroyer of the Hessian fly. <Amer. Agriculturist, 23 March, 1901, p. 428.
1669. WEBSTER, F. M. The work of nursery and orchard inspection and treatment in Ohio. <Journal Columbus Hortic. Soc., XVI, March, 1901, pp. 19-26, 2 figs.
1670. WEBSTER, F. M. Enemies of the Hessian fly. <Ohio Farmer, 28 March, 1901, p. 290.
1671. WEBSTER, F. M. Moth traps. <Ohio Farmer, 16 May, 1901, p. 433.
1672. WEBSTER, F. M. Disparene and cankerworms. <Ohio Farmer, 6 June, 1901, p. 487.

1673. WEBSTER, F. M. Meteorological influences on the development of the Hessian fly. *<Proc. 21st Ann. Meet. Soc. Prom. Agric. Science f. 1900 (1901)*, pp. 6, 1 fig.
1674. WEBSTER, F. M. Report of the committee on entomology. *<Ann. Rept. Ohio State Hortic. Soc. f. 1900 (1901)*, pp. 1-2, 7 pls., 2 figs.
1675. WEBSTER, F. M. The onion thrips. *<Journ. Columbus Hortic. Soc., XVI*, No. 3, 1901, pp. 74-80, 1 pl.
1676. WEBSTER, F. M. The imported willow and poplar curculio. *<Journ. Columbus Hortic. Soc., XVI*, 1901, 11 pp., 1 pl. Account of *Cryptorhynchus lapathi* Linn.
1677. WEBSTER, F. M. Wheat and Hessian fly. *<Rural New Yorker*, 1901, pp. 537, 553.
1678. WEBSTER, F. M. An eight years study of chinch bug outbreaks in Ohio. *<Proc. 22d Ann. Meet. Soc. Prom. Agric. Science*, pp. 47-57 (1902).
1679. WEBSTER, F. M. The spraying of orchards. *<Farm, Field, and Fireside*, 1 February, 1902.
1680. WEBSTER, F. M. The trend of insect diffusion in North America. *<32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902)*, pp. 63-67, 3 maps.
1681. WEBSTER, F. M. The imported willow and poplar curculio. *<32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902)*, pp. 67-73, 1 fig.
1682. WEBSTER, F. M. The result of applying crude petroleum to peach trees in Ohio to suppress the San Jose scale. *<Proc. 23d Meet. Soc. Prom. Agric. Science*, 1902, pp. 119-140, 5 pls.
1683. WEBSTER, F. M. Some insect inhabitants of the stems of *Elymus canadensis*. *<Bull. No. 40, Div. Entom., U. S. Dept. Agric.*, August, 1903, pp. 92-93.
- 1683a. WEBSTER, F. M. Insect pests of plants and their effect on American agriculture. *<Official Proceedings, 23d Ann. Session Farmers' Natl. Cong.*, Niagara Falls, 1903, pp. 105-113, 1 fig.
1684. WEBSTER, F. M. Some insect notes of the year. *<Bull. No. 40, Div. Entom., U. S. Dept. Agric.*, August, 1903, pp. 93-96.
1685. WEBSTER, F. M. Mexican cotton-boll weevil. *<Prairie Farmer*, 12 November, 1903.
1686. WEBSTER, F. M. Some insects attacking the stems of growing wheat, rye, barley, and oats. *<Bull. No. 42, Div. Ent., U. S. Dept. Agric.*, December, 1903, pp. 62, figs. 15.

1687. WEBSTER, F. M. The use of arsenate of lead as against the codling moth. <Proc. 24th Ann. Meet. Soc. Prom. Agric. Science, 1903, pp. 65-69.
1688. WEBSTER, F. M. Some distribution notes. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 46-47.
1689. WEBSTER, F. M. The suppression and control of the plague of buffalo gnats in the valley of the lower Mississippi River, and the relations thereto of the present levee system, irrigation in the arid west and tile drainage in the middle west. <Proc. 25th Ann. Meet. Soc. Prom. Agric. Sci., May, 1904, pp. 53-72.
1690. [WEBSTER, F. M.] The insect feed bill. <Prairie Farmer, 4 August, 1904.
1691. [WEBSTER, F. M.] Farmers should study insect pests. <Prairie Farmer, 8 September, 1904.
1692. WEBSTER, F. M., and A. F. BURGESS. A partial list of the Coccidæ of Ohio. <Bull. No. 37, n. s., Div. Entom., U. S. Dept. Agric., November, 1902, pp. 109-113.
1693. WEBSTER, F. M., and W. NEWELL. Insects of the year in Ohio. <Bull. No. 31, n. s., Div. Entom., U. S. Dept. Agric., January, 1902, pp. 84-90.
1694. WEED, C. M. Insect record for 1899. <Bull. No. 72, New Hampshire Agric. Exp. Sta., February, 1900, pp. 61-74, figs. 11.
1695. WEED, C. M. The forest tent caterpillar: Second report. <Bull. No. 75, New Hampshire Agric. Exp. Sta., May, 1900, pp. 109-132, 14 figs.
1696. WEED, C. M. On the oviposition of an egg parasite of *Vanessa antiopa*. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 32-33.
1697. WEED, C. M. On the oviposition of *Cacæcia cerasivorana*. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, p. 33.
1698. WEED, C. M. Remedies for the canker-worm. <Bull. 85, New Hampshire Agric. Exp. Sta., October, 1901, pp. 71-76, 5 figs.
1699. WEED, C. M. Insect record for 1901. <Bull. No. 90, New Hampshire Agric. Exp. Station, March, 1902, pp. 31-44, 12 figs.
1700. WEED, C. M. A partial bibliography of the economic relations of North American birds. <Techn. Bull. 5, New Hamp. Agric. Exp. Sta., December, 1902, pp. 139-179.
1701. WEED, C. M. Spread of the brown tail moth. <American Cultivator, 16 May, 1903.

1702. WEED, C. M. Notes from New Hampshire. <Bull. No. 40, Div. Entom., U. S. Dept. Agric., August, 1903, pp. 50-52.
1703. WEED, C. M. A note on root maggots. <Proc. Soc. Prom. Agric. Science, 1904, pp. 142-143.
1704. WEED, C. M. The brown-tail moth in New Hampshire. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 107-108.
1705. WEED, C. M. An experiment with black flies. <Bull. No. 46, Div. Ent., U. S. Dept. Agric., May, 1904, pp. 108-109.
1706. WEED, C. M., and A. F. CONRADI. The squash bug. <Bull. No. 89, N. Hampshire Agric. Exp. Sta., February, 1902, pp. 15-28, 2 figs.
1707. WEED, C. M., and A. F. CONRADI. The white fly of green-houses. <Bull. No. 100, New Hampshire Agric. Exp. Station, pp. 45-52, 1 fig.
1708. WEED, C. M., and N. DEARBORN. The food of the myrtle warbler. <Tech. Bull. No. 3, New Hampshire Agric. Exp. Sta., November, 1901, pp. 119-128.
1709. WEED, C. M., and W. F. FISKE. The relations of *Pimpla conquisitor* to *Clisiocampa americana*. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 33-34.
1710. WEEKS, H. C. The extermination of the malaria-breeding mosquito by petroleum and drainage. <Sci. Amer. Suppl., January 5, 1901, pp. 20921-20922.
1711. WEEKS, H. C. The extermination of mosquitoes and prevention of malaria. <Scient. American, 26 April, 1902, p. 293.
1712. WHEELER, W. M. On the pupation of ants, and the feasibility of establishing the Guatemalan Kelep or cotton-weevil ant in the United States. <Science, 30 September, 1904, pp. 437-440.
1713. WHITTEN, J. C. The grape Phylloxera. <Colman's Rural World, 22 February, 1900, p. 3.
1714. WHITTEN, J. C. The woolly aphid on apple roots. <Rural New Yorker, 12 January, 1901, p. 18.
1715. WICKSON, E. J. Scale on prunes in Sonoma County. Root borers and red spider. Phylloxera on grape cuttings. <Pacific Rural Press, 6 January, 1900, p. 3.
1716. WICKSON, E. J. Lecanium scales. <Pacific Rural Press, 3 February, 1900, p. 67.
1718. WICKSON, E. J. Winter treatment for leaf aphid. Carbon bisulphide for San Jose scale. <Pacific Rural Press, 17 February, 1900, p. 99.
1719. WICKSON, E. J. Grain aphid. <Pacific Rural Press, 7 April, 1900, p. 211.

1720. WICKSON, E. J. Bran and arsenic for grasshoppers and cut-worms. <Pacific Rural Press, 14 April, 1900, p. 227.
1721. WICKSON, E. J. Horn fly fighting. <Pacific Rural Press, 21 April, 1900, p. 243.
1722. WICKSON, E. J. Twig borer of olives, prunes, and vines. Leaf chafers at Fresno. <Pacific Rural Press, 12 May, 1900, p. 291.
1723. WICKSON, E. J. Wireworms in beet fields. *Lecanium hemisphaericum*. The purple scale. Prune aphis and red spider. <Pacific Rural Press, 26 May, 1900, p. 323.
1724. WICKSON, E. J. Killing fleas in outbuildings. <Pacific Rural Press, 23 June, 1900, p. 387.
1725. WICKSON, E. J. The *Diabrotica* in the San Joaquin. Peach moth in the foothills. <Pacific Rural Press, 30 June, 1900, p. 403.
1726. WICKSON, E. J. Soft orange scale. <Pacific Rural Press, 7 July, 1900, p. 3.
1727. WICKSON, E. J. Ladybirds and bean aphis. <Pacific Rural Press, 14 July, 1900, p. 19.
1728. WICKSON, E. J. The dreadful *Diabrotica*. <Pacific Rural Press, 21 July, 1900, p. 35.
1729. WICKSON, E. J. Killing weevil in stored grains or legumes. Orange scale. <Pacific Rural Press, 4 August, 1900, p. 67.
1730. WICKSON, E. J. Cottony cushion scale. <Pacific Rural Press, 18 August, 1900, p. 99.
1731. WICKSON, E. J. Paris green and codlin' moth. Potato worms. <Pacific Rural Press, 1 September, 1900, p. 131.
1732. WICKSON, E. J. Paris green for *Diabrotica*. <Pacific Rural Press, 15 September, 1900, p. 263.
1733. WICKSON, E. J. Millipedes in carnation roots. <Pacific Rural Press, 24 November, 1900, p. 323.
1734. WICKSON, E. J. Lime, salt, and sulphur wash for borers. Peach moth. <Pacific Rural Press, 29 December, 1900, p. 403.
1735. WICKSON, E. J. Canker worms. <Pacific Rural Press, 5 January, 1901, p. 3.
1736. WICKSON, E. J. Brown apricot scale. Peach moth. <Pacific Rural Press, 12 January, 1901, p. 19.
1737. WICKSON, E. J. Treatment for woolly aphis. The scurfy scale, woolly aphis on pear. The black scale. Paris green for peach moth. <Pacific Rural Press, 19 January, 1901, p. 35.

1738. WICKSON, E. J. Crude oil or distillate spray. <Pacific Rural Press, 26 January, 1901, p. 51.
1739. WICKSON, E. J. Prevalence of pea weevils. Red spider. <Pacific Rural Press, 9 March, 1901, p. 147.
1740. WICKSON, E. J. Canker worms which won't die. <Pacific Rural Press, 16 March, 1901, p. 163.
1741. WICKSON, E. J. San Jose scale in Japan. <Pacific Rural Press, 23 March, 1901, p. 178.
1742. WICKSON, E. J. Mites unharmed by fumigation. For codlin moth. Horn flies. <Pacific Rural Press, 23 March, 1901, p. 179.
1743. WICKSON, E. J. Light-traps and the codlin moth. <Pacific Rural Press, 6 April, 1901, p. 211.
1744. WICKSON, E. J. Spraying for the codlin moth. <Pacific Rural Press, 20 April, 1901, p. 243.
1745. WICKSON, E. J. Spring treatment for peach moth. <Pacific Rural Press, 27 April, 1901, p. 259.
1746. WICKSON, E. J. The olive twig borer. San Jose scale. <Pacific Rural Press, 4 May, 1901, p. 275.
1747. WICKSON, E. J. Red spider on the hop. <Pacific Rural Press, 18 May, 1901, p. 307.
1748. [WICKSON, E. J.] Summer treatment for peach moth. <Pacific Rural Press, 8 June, 1901.
1749. WICKSON, E. J. Leaf aphid. Red spider on nectarines. Grape bloom beetle. <Pacific Rural Press, 15 June, 1901, p. 371.
1750. [WICKSON, E. J.] For Diabroticas and prune aphid. <Pacific Rural Press, 22 June, 1901.
1751. WICKSON, E. J. For lice and prune aphid. <Pacific Rural Press, 22 June, 1901, p. 387.
1752. WICKSON, E. J. Corn ear worm and its work. <Pacific Rural Press, 29 June, 1901, p. 402.
1753. WICKSON, E. J. Millipedes and squash-growing. <Pacific Rural Press, 29 June, 1901, p. 403.
1754. WICKSON, E. J. An enquiring turn of mind. <Pacific Rural Press, 29 June, 1901, p. 403.
Treatment for black scale.
1755. WICKSON, E. J. Harlequin cabbage bug. <Pacific Rural Press, 6 July, 1901, p. 3.
1756. WICKSON, E. J. *Phryganidia californica*. <Pacific Rural Press, 6 July, 1901, p. 3.
1757. WICKSON, E. J. Cottony cushion scale. <Pacific Rural Press, 6 July, 1901, p. 3.

1758. WICKSON, E. J. Woolly aphis galls. <Pacific Rural Press, 6 July, 1901, p. 3.
1759. [WICKSON, E. J.] Aphids and thrips on watermelons. <Pacific Rural Press, 13 July, 1901.
1760. WICKSON, E. J. Corn worms. <Pacific Rural Press, 27 July, 1901, p. 51.
1761. WICKSON, E. J. Lecaniums on orange trees. Woolly aphis once more. <Pacific Rural Press, 3 August, 1901, p. 67.
1762. WICKSON, E. J. Ladybugs and woolly aphis. Scales on house plants. Aphids on willow. Soft orange scale. <Pacific Rural Press, 10 August, 1901, pp. 82-83.
1763. WICKSON, E. J. Horn flies. <Pacific Rural Press, 17 August, 1901, p. 99.
1764. WICKSON, E. J. Aleyrodes on grape. Chicken ticks. Codlin moths received. <Pacific Rural Press, 24 August, 1901, p. 115.
1765. WICKSON, E. J. Friendly, but of formidable mien. The peach moth. Paste for aphis on young trees. <Pacific Rural Press, 31 August, 1901, p. 130-131.
1766. WICKSON, E. J. The codlin moth. <Pacific Rural Press, 7 September, 1901, p. 147.
1767. WICKSON, E. J. Fumigation for woolly aphis. <Pacific Rural Press, 7 September, 1901, p. 150.
1768. WICKSON, E. J. Ridding a house of fleas. Chicken ticks again. <Pacific Rural Press, 14 September, 1901, p. 163.
1769. WICKSON, E. J. Red spider. <Pacific Rural Press, 28 September, 1901, p. 195.
1770. WICKSON, E. J. Weevily peas. Peach-root borer. <Pacific Rural Press, 9 November, 1901, p. 291.
1771. WICKSON, E. J. Blister mite. Phylloxera in Fresno. <Pacific Rural Press, 16 November, 1901, p. 307.
1772. WICKSON, E. J. Peach moth. <Pacific Rural Press, 30 November, 1901, p. 339.
1773. WICKSON, E. J. The crown borer. <Pacific Rural Press, 14 December, 1901, p. 371.
1774. [WICKSON, E. J.] Treatment for crown borer. <Pacific Rural Press, 28 December, 1901, p. 407.
1775. WICKSON, E. J. Kerosene emulsion for the San Jose scale. <Pacific Rural Press, 25 January, 1902, p. 63.
1776. WICKSON, E. J. *Lecanium pruinosum*. The rose or berry scale. <Pacific Rural Press, 1 March, 1902, p. 151.

1777. WICKSON, E. J. Killing tree ants. <Pacific Rural Press, 15 March, 1902, p. 183.
1778. WICKSON, E. J. Old scars of woolly aphis. Prionus borer and lilac moth. Kerosene emulsion for chicken lice. <Pacific Rural Press, 22 March, 1902, pp. 198-199.
1779. WICKSON, E. J. Wood ashes and woolly aphis. For red spider. <Pacific Rural Press, 29 March, 1902, p. 215.
1780. WICKSON, E. J. Spray treatment for canker worms. <Pacific Rural Press, 12 April, 1902, p. 247.
1781. WICKSON, E. J. The codlin moth: trap or spray. <Pacific Rural Press, 19 April, 1902, p. 263.
1782. WICKSON, E. J. Twig-boring beetles and pear blight. <Pacific Rural Press, 26 April, 1902, p. 279.
1783. WICKSON, E. J. Vine hoppers. Pear blister mite. Insects on rose bushes. <Pacific Rural Press, 3 May, 1902, p. 295.
1784. WICKSON, E. J. The grape-vine Hoplia. Bees and pear blight. <Pacific Rural Press, 10 May, 1902, p. 311.
1785. WICKSON, E. J. Brown apricot scale. Wood ashes and woolly aphis. Flea beetles in garden. <Pacific Rural Press, 17 May, 1902, pp. 326-327.
1786. WICKSON, E. J. Leaf aphis and cottony cushion scale. <Pacific Rural Press, 24 May, 1902, p. 342.
1787. WICKSON, E. J. Black scale on shrubbery. Watermelon aphis. <Pacific Rural Press, 31 May, 1902, p. 359.
1788. WICKSON, E. J. Treatment for leaf lice. <Pacific Rural Press, 14 June, 1902.
1789. WICKSON, E. J. The grasshopper problem. <Pacific Rural Press, 28 June, 1902, p. 422.
1790. WICKSON, E. J. Polycaon in grape vines. Melon aphis. <Pacific Rural Press, 28 June, 1902, p. 423.
1791. WICKSON, E. J. Grasshoppers. Plum aphis. <Pacific Rural Press, 12 July, 1902, pp. 18-19.
1792. WICKSON, E. J. Compressed grasshoppers suggested. <Pacific Rural Press, 19 July, 1902, p. 35.
1793. WICKSON, E. J. Cherry slug. Cabbage lice and cabbage worms. Cucumber and melon beetles. <Pacific Rural Press, 26 July, 1902, p. 51.
1794. WICKSON, E. J. Black scale and shot-hole. Vinehoppers. <Pacific Rural Press, 9 August, 1902, p. 83.
1795. WICKSON, E. J. Apple leaf aphis. Peach moth in almond. Kissing bugs. <Pacific Rural Press, 16 August, 1902, p. 99.

1796. WICKSON, E. J. Wireworms and cabbage plants. Trap for horn flies. <Pacific Rural Press, 30 August, 1902, p. 131.
1797. WICKSON, E. J. Killing yellow jackets. <Pacific Rural Press, 6 September, 1902, p. 147.
1798. WICKSON, E. J. San Jose scale on apples. <Pacific Rural Press, 25 October, 1902, p. 259.
1799. WICKSON, E. J. Oak moths, *Diabroticas*, and blackberry borers. Horse-flies and warble flies. <Pacific Rural Press, 1 November, 1902, pp. 274-275.
1800. WICKSON, E. J. Harlequin cabbage bugs. <Pacific Rural Press, 8 November, 1902, p. 291.
1801. WICKSON, E. J. Pyrethrum powder and mosquitoes. Resistant vines. <Pacific Rural Press, 20 December, 1902, p. 386.
1802. WICKSON, E. J. Ladybugs in California. <Pacific Rural Press, 3 January, 1903, p. 3.
1803. WICKSON, E. J. Is *Phylloxera* a scare? <Pacific Rural Press, 3 January, 1903.
1804. WICKSON, E. J. *Aphis* resistant apple trees. Cottony cushion scale. <Pacific Rural Press, 10 January, 1903, pp. 18-19.
1805. WICKSON, E. J. Distillate emulsion for woolly *aphis*. Potato moth's eggs. <Pacific Rural Press, 24 January, 1903, p. 50.
1806. WICKSON, E. J. Red spider eggs. <Pacific Rural Press, 14 February, 1903, p. 98.
1807. WICKSON, E. J. Codlin moth and woolly *aphis*. <Pacific Rural Press, 21 March, 1903, p. 179.
1808. WICKSON, E. J. Ticks in chicken houses. Spray for red spider. <Pacific Rural Press, 25 April, 1903, p. 259.
1809. WICKSON, E. J. Erinose of the vine. Erinose of the walnut. Brown apricot scale. <Pacific Rural Press, 23 May, 1903, pp. 322-323.
1810. WICKSON, E. J. For the red spider. <Pacific Rural Press, 30 May, 1903, p. 339.
1811. WICKSON, E. J. Codlin moth investigation. Black scale of olive. <Pacific Rural Press, 6 June, 1903, p. 355.
1812. WICKSON, E. J. The black *aphis* of the peach. <Pacific Rural Press, 13 June, 1903, p. 386.
1813. WICKSON, E. J. The oak webworm. The corn ear-worm. Currant fruit fly. Red spider again. <Pacific Rural Press, 20 June, 1903, pp. 386-387.
1814. WICKSON, E. J. Blister mites and cicadas. <Pacific Rural Press, 4 July, 1903, p. 2.

1815. WICKSON, E. J. Late treatment for red spider. Pear slug. <Pacific Rural Press, 18 July, 1903, p. 35.
1816. WICKSON, E. J. The large squash or pumpkin bugs. Thrips on beans. <Pacific Rural Press, 25 July, 1903, p. 50.
1817. WICKSON, E. J. Horn flies. Ticks in chicken houses. <Pacific Rural Press, 8 August, 1903, pp. 82-83.
1818. WICKSON, E. J. Thrips on field crops. <Pacific Rural Press, 15 August, 1903, p. 99.
1819. WICKSON, E. J. Fumigation practice in Southern California. <Pacific Rural Press, 29 August, 1903.
1820. WICKSON, E. J. Red spiders on fruit trees. <Pacific Rural Press, 5 September, 1903, 3 figs.
1821. WICKSON, E. J. Leaf injury by distillate spraying. <Pacific Rural Press, 12 September, 1903, 5 figs.
1822. WICKSON, E. J. The greedy scale, not the San Jose scale. <Pacific Rural Press, 10 October, 1903, p. 277.
1823. WICKSON, E. J. Chicken ticks. The flat-headed borer. <Pacific Rural Press, 17 October, 1903, p. 243.
1824. WICKSON, E. J. Trapping the canker-worm moth. <Pacific Rural Press, 7 November, 1903, p. 291.
1825. WICKSON, E. J. Red spider on apple trees. <Pacific Rural Press, 19 December, 1903, pp. 386-387.
1826. WICKSON, E. J. Scale on walnuts. <Pacific Rural Press, 16 January, 1904, p. 35.
1827. WICKSON, E. J. Ear ticks of domestic animals. <Pacific Rural Press, 30 January, 1904, p. 66.
1828. WICKSON, E. J. Hot lime, salt, and sulphur. The San Jose scale. <Pacific Rural Press, 6 February, 1904, p. 82.
1829. WICKSON, E. J. Crude oil for peach borer. <Pacific Rural Press, 13 February, 1904, p. 99.
1830. WICKSON, E. J. Lysol for Phylloxera. <Pacific Rural Press, 22 March, 1904, p. 163.
1831. WICKSON, E. J. Bluestone in the lime, salt, and sulphur washes. <Pacific Rural Press, 29 March, 1904, p. 178.
1832. WICKSON, E. J. Rational treatment of the codlin moth. <Pacific Rural Press, 16 April, 1904.
1833. WICKSON, E. J. Wire worms and beans. <Pacific Rural Press, 23 April, 1904, p. 259.
1834. WICKSON, E. J. The olive twig borer. <Pacific Rural Press, 30 April, 1904, p. 274.

1835. WICKSON, E. J. The corn ear worm. The common rose aphid. Leaf aphid of apple. <Pacific Rural Press, 7 May, 1904, pp. 290-291.
1836. WICKSON, E. J. Leaf aphid on fruit trees. <Pacific Rural Press, 4 June, 1904, p. 355.
1837. WICKSON, E. J. Parasites for brown apricot scale. <Pacific Rural Press, 11 June, 1904, p. 371.
1838. WICKSON, E. J. Treatment of woolly aphid. Hoppers in a vineyard. <Pacific Rural Press, 18 June, 1904, p. 387.
1839. WICKSON, E. J. Woolly aphid again. Pear blister mite. <Pacific Rural Press, 25 June, 1904, p. 403.
1840. WICKSON, E. J. To rid a house of fleas. <Pacific Rural Press, 2 July, 1904, p. 3.
1841. WICKSON, E. J. Erinose of the vine. <Pacific Rural Press, 23 July, 1904, p. 51.
1842. WICKSON, E. J. Army worms in the Sierra. <Pacific Rural Press, 13 August, 1904, p. 99.
1843. WICKSON, E. J. The flat-headed borer. <Pacific Rural Press, 20 August, 1904, p. 115.
1844. WICKSON, E. J. The corn ear worm. A dose for crickets. <Pacific Rural Press, 17 September, 1904, pp. 178-179.
1845. WICKSON, E. J. An ant problem. <Pacific Rural Press, 8 October, 1904, p. 210.
1846. WICKSON, E. J. The flat-headed borer. <Pacific Rural Press, 22 October, 1904, p. 259.
1847. WICKSON, E. J. Chicken ticks and their treatment. <Pacific Rural Press, 22 October, 1904, p. 259.
1848. WICKSON, E. J. Mealy-bugs in forcing beds. <Pacific Rural Press, 29 October, 1904, p. 275.
1849. WICKSON, E. J. Movement of Lecanium scales. <Pacific Rural Press, 3 December, 1904, p. 355.
1850. WILCOX, E. M. Notes on troublesome insects. <Okla. Sta. Rept. f. 1901, pp. 112-116, 3 figs.
1851. WILCOX, E. V. Losses caused by the grain aphid. <Montana Agric. Exp. Station, June, 1899 (February, 1901), pp. 25-26.
1852. WILCOX, E. V. The internal chicken mite. <Montana Agric. Exp. Station, June, 1899 (February, 1901), pp. 30-36.
Notes on *Cytodites nudus* Viz.
1853. WILCOX, S. E. The San Jose scale in Ohio. <Country Gentleman, 8 November, 1900, p. 909.

1854. WILEY, C. S. Combating green plant lice. <American Agriculturist, 7 May, 1904, p. 530.
1855. WILEY, H. S. The fumigation of nursery stock. <Rural New Yorker, 31 March, 1900, p. 235.
1856. WILLIAMS, H. Spraying. <Agric. Epitomist, June, 1900.
1857. WILLIAMS, J. K. Successful work against scale. <Amer. Agriculturist, 18 January, 1902, p. 86.
1858. WILSON, L. M. The Putnam scale. <American Gardening, 11 May, 1901.
1859. WINANS, R. M. The San Jose scale. <Wisconsin Agriculturist, 21 January, 1904, p. 11.
1860. WOOD, E. M. Destroying rose insects. <American Agriculturist, 31 March, 1900, p. 407.
1861. WOODARD, J. S. Sheep in the orchard will destroy codling moth. <Southern Agriculturist, 15 June, 1902, pp. 3-4.
1862. WOODS, A. F. Stigmonose: a disease of carnations and other pinks. <Bull. No. 19, Div. Veg. Phys. Path., U. S. Dept. Agric., June, 1900, pp. 28, 3 pls.
Disease due to punctures by Aphids and leaf-hoppers.
1863. WOODS, C. D. Experiments with insecticides upon potatoes. <Bull. No. 68, Maine Agric. Exp. Sta., October, 1900, pp. 171-192.
1864. WOODS, C. D. The chinch bug. <Amer. Grange Bulletin, 12 December, 1901.
1865. WOODS, C. D. Potato insecticides and fungicides in 1902. <Bull. No. 87, Maine Agric. Exp. Station, December, 1902, pp. 197-209.
1866. WOODWORTH, C. W. Notes from California. <Bull. No. 26, n. s., Div. Ent., U. S. Dept. Agric., October, 1900, pp. 90-94.
1867. WOODWORTH, C. W. The grasshoppers of California. <Bull. No. 142, Calif. Agric. Exp. Station, August, 1902, pp. 36, figs. 17.
1868. WOODWORTH, C. W. The Californian peach tree borer. <Bull. No. 143, Calif. Agric. Exp. Station, September, 1902, 15 pp., 7 figs.
Account of *Sanninoidea opalescens* Hy. Edw.
1869. WOODWORTH, C. W. The red spider of citrus trees. <Bull. No. 145, Calif. Agric. Exp. Station, November, 1902, pp. 19, 5 figs.
Account of *Tetranychus mytilaspidis* Riley.
1870. WOODWORTH, C. W. Remedies for peach tree borer. <Pacific Rural Press, 8 November, 1902, p. 293.

1871. WOODWORTH, C. W. Fumigation dosage. <Bull. No. 152, Calif. Agric. Exp. Station, 1903, pp. 17, 6 figs.
1872. WOODWORTH, C. W. Entomology. <Rept. Calif. Agric. Exp. Station, 1902-3 (1903), pp. 104-110.
1873. WOODWORTH, C. W. New observations on the codlin moth. <Pacific Rural Press, 19 December, 1903, pp. 388-389.
1874. WOODWORTH, C. W. New observations on the codlin moth. <Calif. Fruit Grower, 13 February, 1904. <Pacific Fruit World, 2 January, 1904.
1875. WOODWORTH, C. W. The control of the codlin moth. <Pacific Rural Press, 6 February, 1904.
1876. WOODWORTH, C. W. Spraying for codlin moth. <Pacific Rural Press, 16 April, 1904, p. 244; 23 April, 1904, p. 260.
1877. WOODWORTH, C. W. Directions for spraying for the codlin moth. <Bull. No. 155, Calif. Agric. Exp. Station, 1904, pp. 20, 4 figs.
- 1877a. WOODWORTH, C. W. Cooperative work in economic entomology. <Proc. 17 Ann. Conv. Amer. Agric. Coll. and Exp. Stations, Bull. No. 142, Off. Exp. Sta., Dept. Agric., 1904, pp. 186-189.
1878. WOOLVERTON, L. The codling moth. <Canadian Horticulturist, March, 1900, pp. 87-90, 3 figs.
1879. YOUNG, C. H. Notes on insects of the year. <32d Ann. Rept. Entom. Soc. Ontario f. 1901 (1902), pp. 24-26, 6 figs.
1880. YOUNG, C. H. Report on insects of the year. <33d Ann. Rept. Ent. Soc. Ont. f. 1902 (1903), pp. 37-38, 2 figs.
1881. YOUNG, C. H. Report on insects of the year. <34th Ann. Rept. Ent. Soc. Ont. f. 1903 (1904), pp. 10-19, 1 fig.
1882. ZAVITZ, C. A., and W. LOCHHEAD. Peas and the pea weevil. <Bull. No. 126, Ontario Agric. College, April, 1903, pp. 32, 9 figs.

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